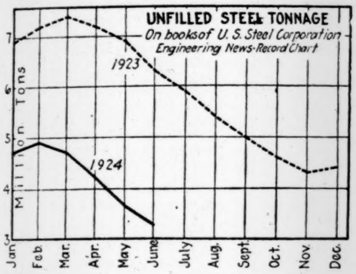
CONSTRUCTION NEWS

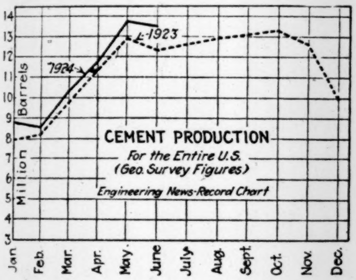
Engineering News-Record, July 24, 1924

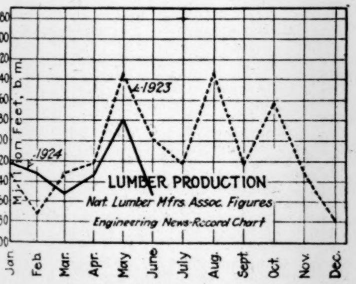
The Construction Barometer

Steady Gain in Contract Letting Since First Week in July—Sharp Curtailment of Production in Most of the Basic Industries

A GLANCE at the accompanying charts will give some idea of the sharp curtailment of production now going on in the basic industries. The direct effect of this downward trend has been unemployment of labor; the indirect result, however, will be increasing firmness in prices. Although there is reported over-expansion in certain industries, namely: textile, shoe, clothing, coal and automotive, in others there are no appreciable stocks of materials being held in reserve by consumers. Small quantity purchasing direct from mill is, therefore, the rule. At the first sign of a return to an active buying basis, firmness in mill prices will develop. In contrast with the slowing-down in production, contract totals have shown steady increases from week to week, since the first of July, according to *Engineering News-Record* statistics. This is particularly true of large private building projects.







Engineering News-Record Statistics

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
July 3	$14,542,000	$7,469,000	$22,011,000
July 10	18,613,000	12,054,000	30,667,000
July 17	15,869,000	28,753,000	44,622,000
3 weeks	$49,024,000	$48,276,000	$97,300,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

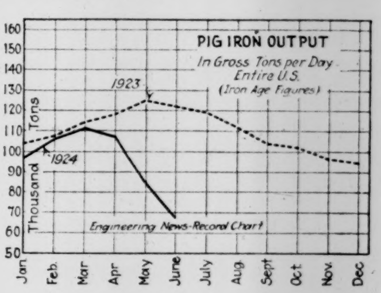
Week Ended	No.	Public Work	No.	Private Work
July 3	6	$3,530,000	19	$5,845,000
July 10	11	2,899,000	30	7,475,000
July 17	17	3,458,000	44	21,720,000
3 weeks	34	$9,887,000	93	$35,040,000

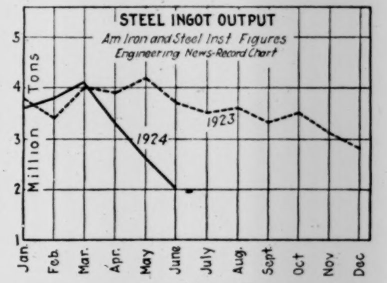
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

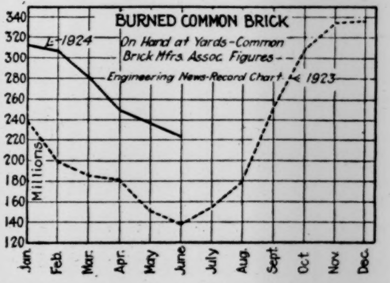
Week Ended	Private	Commercial Buildings	Streets and Roads	Waterworks and Sewers	All Public
July 3	17	28	85	40	196
July 10	30	34	93	46	213
July 17	29	40	79	38	195

DECLINE IN FIR TIMBERS ON WEST COAST

	Quoted on July 24 at	Price was	On
Structurals, Pittsburgh, 100 lb.	$1.95 @2.15	$2.00 @2.20	July 10
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	57.00	54.00	July 10
Fir, San Fran., M.ft...	32.00	34.00	July 17
Common labor, hr.	.56	.55	Apr. 24







PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

Bids Close — See Eng. News-Record

WATERWORKS

July 25 Washington, D. C. .... July 17
July 25 Boston, Mass. .... July 24
July 25 Medford (Boston P. O.), Mass. .... July 24
July 28 Westfield, N. J. .... July 24
Adv. July 17 and 24.
July 28 East Tawas, Mich. .... July 24
July 29 Newport, Ky. .... July 17
July 30 Hannibal, Mo. .... July 24
July 30 Miami Beach, Fla. .... July 24
Adv. July 24.
July 31 Austin, Tex. .... July 24
July 31 Grand Rapids, Mich. .... July 24

Bids Close — See Eng. News-Record

July 31 Savannah, Ga. .... July 24
Aug. 7 Shreveport, La. .... July 24
Aug. 11 Dallas, Tex. .... July 17
Aug. 15 Aztec, N. Mex. .... July 17
Adv. July 17 and 24.
Aug. 21 Atlanta, Ga. .... July 24

SEWERS

July 25 Nanty-Glo, Pa. .... July 17
July 25 Boston, Mass. .... July 24
July 28 Owosso, Mich. .... July 24
July 28 Eldorado, Ark. .... July 10
July 28 Punxsutawney, Pa. .... July 10
Adv. July 10 to 24.
July 28 Dumont, N. J. .... July 17
July 29 Phila., Pa. .... July 24
July 30 Brooklyn, N. Y. .... July 24
July 30 Detroit, Mich. .... July 17
July 30 Columbus, O. .... July 24
July 30 Baltimore, Md. .... July 24
Adv. July 24.
July 31 Media, Pa. .... July 17

Bids Close — See Eng. News-Record

July 31 Tulsa, Okla. .... July 24
July 31 Boston, Mass. .... July 24
Aug. 1 Boston, Mass. .... July 24
Aug. 1 Milford, Mich. .... July 24
Aug. 1 Milwaukee, Wis. .... July 24
Aug. 4 Boston, Mass. .... July 24
Aug. 4 San Diego, Cal. .... July 24
Aug. 4 Metuchen, N. J. .... July 24
Adv. July 17 and 24.
Aug. 4 St. Petersburg, Fla. .... July 24
Adv. July 24.
Aug. 4 Akron, O. .... July 24
Aug. 5 Corsicana, Tex. .... July 10
Aug. 5 Toronto, Ont. .... July 17
Aug. 5 Richmond, Va. .... July 17
Adv. July 17 and 24.
Aug. 5 Elkins Park, Pa. .... July 24
Adv. July 17 and 24.
Aug. 5 Jackson, Mich. .... July 24
Aug. 6 West Roxbury (Boston P. O.), Mass. .... July 24
Aug. 15 Waco, Tex. .... July 3

Bids Close		See Eng. News-Record
Aug. 20	Elgin, Ill. Adv. July 24.	July 24
Sept. 4	New Jersey	July 24

BRIDGES

Bids Close		See Eng. News-Record
July 28	South Beloit (Beloit, Wis., P. O.), Ill.	July 10
July 28	New Jersey	July 17
July 29	Laredo, Tex.	July 24
July 29	Oklahoma City, Okla.	July 24
July 29	Laredo, Tex.	July 24
July 30	Aberdeen, Wash.	July 24
July 31	Austin, Tex.	July 17
July 31	West Chester, Pa.	July 17
Aug. 1	Ohio	July 24
Aug. 4	Kentucky	July 10
Aug. 4	Aurora, Ill. Adv. July 24.	July 24
Aug. 5	North Carolina	July 17
Aug. 6	Freehold, N. J. Adv. July 17 and 24.	July 17
Aug. 7	Hollywood, Fla. Adv. July 17 and 24.	July 17
Aug. 11	Camden, N. J. Adv. July 24.	July 24
Aug. 14	Kansas City, Kan.	July 24
Aug. 26	East St. Louis, Ill.	July 24

RAILWAYS

Bids Close		See Eng. News-Record
July 25	Quebec	July 24

DAMS

Bids Close		See Eng. News-Record
July 25	Norwalk, Conn.	July 17

EXCAVATION, DRAINAGE IRRIGATION

Bids Close		See Eng. News-Record
Aug. 2	El Paso, Tex.	July 17
Aug. 2	Sierra Blanca, Tex.	July 24
Aug. 11	Ripley, Miss.	July 24

STREETS AND ROADS

Bids Close		See Eng. News-Record
July 25	Hudson, N. Y.	July 10
July 25	South Fork, Pa.	July 17
July 25	Nanty-Glo, Pa.	July 17
July 28	Waseca, Ill.	July 10
July 28	Belleville, N. J.	July 17
July 28	Crockett, Tex.	July 24
July 28	Michigan	July 24
July 28	Boston, Mass.	July 24
July 28	Holland, N. Y.	July 24
July 29	Massachusetts	July 24
July 29	Wisconsin	July 24
July 29	Michigan	July 24
July 29	Buffalo, N. Y.	July 24
July 29	Colorado	July 24
July 29	Closter, N. J. Adv. July 17 and 24.	July 17
July 29	St. Louis, Mo.	July 10
July 29	Pennsylvania Adv. July 10 to 24.	July 10
July 29	Tyler, Tex.	July 17
July 29	Minnesota	July 17
July 29	Massachusetts	July 17
July 29	Richmond, Va.	July 17
July 29	Louisiana	July 17
July 29	Maryland Adv. July 24.	July 24
July 30	Delaware	July 17
July 30	Mound City, Kan.	July 3
July 30	Ferndale, Pa.	July 17
July 30	Brownstown, Pa.	July 17
July 30	Collins, N. Y.	July 24
July 30	Vancouver, B. C.	July 24
July 30	Boston, Mass.	July 24
July 30	Brooklyn, N. Y.	July 24
July 30	Illinois	July 24
July 31	McKinney, Tex.	July 24
July 31	LaCrosse, Wis.	July 24
July 31	Louisville, Ky.	July 17
July 31	Altoona, Pa.	July 24
July 31	Easton, Md. Adv. July 24.	July 24
July 31	Paducah, Ky. Adv. July 24.	July 24
Aug. 1	Dover, O.	July 24
Aug. 1	Cresson, Pa.	July 24
Aug. 1	New York Adv. July 17 and 24.	July 17
Aug. 1	Houston, Tex.	July 10
Aug. 1	Girard, Kan.	July 17
Aug. 1	Ohio	July 24
Aug. 4	Kentucky	July 10
Aug. 4	Cattaraugus, N. Y. Adv. July 17 and 24.	July 17
Aug. 4	Plainfield, N. J. Adv. July 17 and 24.	July 17
Aug. 4	New York Adv. July 17 and 24.	July 24
Aug. 4	Lewiston, Pa.	July 24
Aug. 4	Meyersdale, Pa.	July 24
Aug. 4	San Diego, Cal.	July 24
Aug. 5	Casper, Wyo.	July 24
Aug. 5	Pennsylvania	July 24
Aug. 5	Wash, N. C. Adv. July 17 and 24.	July 17
Aug. 5	Jasper, Ala.	July 17
Aug. 5	North Carolina Adv. July 17 and 24.	July 17
Aug. 5	Harrisburg, Pa. Adv. July 24.	July 24
Aug. 5	North Carolina Adv. July 17 and 24.	July 24
Aug. 5	Trenton, N. J.	July 24
Aug. 5	Pontotoc, Miss.	July 17
Aug. 6	St. Louis, Mo.	July 17
Aug. 6	Pontotoc, Miss.	July 24
Aug. 6	Belvidere, N. J. Adv. July 24.	July 24
Aug. 7	Southmont, Pa.	July 24
Aug. 8	Tennessee	July 24
Aug. 11	Plainfield, N. J. Adv. July 24.	July 24
Aug. 11	New Jersey Adv. July 24.	July 24
Aug. 11	Corinth, Miss. Adv. July 24	July 24
Aug. 12	Carrizo Springs, Tex.	July 24
Aug. 13	Alabama	July 24
Aug. 29	Pelham, N. Y. Adv. July 17 and 24.	July 24

BUILDINGS—COMMERCIAL

Bids Close		See Eng. News-Record
July 22	Lebanon, Mo.	July 24
July 26	Decatur, Ill.	July 10
July 26	Wishawaka, Ind.	July 17
July 26	Madison, Wis.	July 17
July 28	South Bend, Ind.	July 17
July 28	Chicago, Ill.	July 24
July 29	Smithfield, N. C.	July 24
July 29	Joplin, Mo.	July 24
July 30	Woodville, Pa.	July 24
July 30	Detroit, Mich.	July 17
Aug. 1	Dallas, Tex.	July 24
Aug. 1	Chicago, Ill.	July 24
Aug. 1	Chicago, Ill.	July 17
Aug. 4	Racine, Wis.	July 24
Aug. 11	Greigsville, N. Y.	July 10
Aug. 14	New York, N. Y.	July 24
Aug. 15	Croton-on-Hudson, N. Y. Adv. July 24.	July 24
Aug. 15	Los Angeles, Cal.	July 24
Aug. 30	New Castle, Pa.	Aug. 24
Sept. 1	New Castle, Pa.	July 24
Sept. 2	Columbus, O.	July 24

FEDERAL GOVERNMENT WORK

Bids Close		See Eng. News-Record
July 28	Dredging—Texas Adv. July 3 to 24.	July 3
July 30	Store House Depot, etc.—Pearl Harbor, H. T.	June 5
July 30	Water Intake—Great Lakes, Ill.	July 17
July 31	Riprap—Norfolk Harbor, Va. Adv. July 17 and 24.	July 17
July 31	Road—New Mexico	July 24
July 31	Dredging—Detroit, Mich.	July 24
July 31	Roads—Montana	July 24
Aug. 1	Castings—Florence, Ala. Adv. July 17 and 24.	July 24
Aug. 1	Steel Roof Trusses—Florence, Ala. Adv. July 10 to 24.	July 10
Aug. 1	Hopper Dredge—Mobile, Ala.	July 17
Aug. 4	Dredging — Galveston, Tex. Adv. July 10 to 24.	July 10
Aug. 5	Bridge—Florence, Ala. Adv. May 15 to July 24.	May 15
Aug. 5	Levee—Vicksburg, Miss. Adv. July 17 and 24.	July 17
Aug. 5	Current Retards—Labaddie, Mo.	July 24
Aug. 6	Hospital—Savannah, Ga. Adv. July 24.	July 24
Aug. 8	Dike—Phila., Pa.	July 24
Aug. 9	Engines—Pittsburgh, Pa. Adv. July 17 and 24.	July 24
Aug. 11	Rip Rap, etc.—Huntington, W. Va.	July 24
Aug. 12	School—Franklin, Tenn. Adv. July 17 and 24.	July 17
Aug. 12	Roads—Whipple Barracks, Ariz. Adv. July 17 and 24.	July 17
Aug. 12	Water Tanks, etc.—Atlanta, Ga. Adv. July 17 and 24.	July 24
Aug. 13	Steel Water Tanks—Pearl Harbor, H. T.	July 3
Aug. 15	Dredging—Providence, R. I. Adv. July 17 and 24.	July 17
Aug. 15	Towboat—Montgomery, Ala. Adv. July 17 and 24.	July 24
Aug. 17	Dipper Dredges—Louisville, Ky.	July 10
Aug. 19	Quarters—Wash., D. C. Adv. July 24.	July 24
Sept. 2	Chutes, etc.—Honolulu, H. I.	July 3
Sept. 20	Lock Gates — Florence, Ala. Adv. July 24.	

UNCLASSIFIED

Bids Close		See Eng. News-Record
July 25	Pavilion—Elizabeth, N. J.	July 17
Aug. 4	Insulators—Melbourne, Victoria, Australia	June 12
Aug. 4	Stadium—Elizabeth, N. J.	July 24
Aug. 4	Culverts—Dennison, Ia.	July 24
Aug. 6	Pier—Port Burwell, Ont.	July 24
Aug. 6	Pier—Lamotte, Ont.	July 24
Aug. 19	Turbines—Toronto, Ont.	July 24
Sept. 15	Bushing Insulators—Melbourne, Victoria, Australia	July 10

MATERIAL AND EQUIPMENT

Bids Close		See Eng. News-Record
July 30	Cement — New York, N. Y.	July 24
Aug. 5	Wood Blocks—Winnipeg, Man.	July 17
Aug. 29	Dredger—Brisbane, Queensland, Australia	Apr. 10

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, making surveys extending 60 in. pipe line from Waltham through Belmont and Arlington. J. R. Rablin, 1 Ashburton Pl., engr.

Mass., Charlestown—(Boston P. O.)—Metropolitan Dist. Comm., 1 Ashburton Pl. Boston plans to install 2 centrifugal impeller wheel pumps, at pumping station, $10,000. J. R. Rablin, 1 Ashburton Pl., Boston, engr.

Mass., Medford (Boston P. O.) — City plans laying and relaying water mains, $50,000. C. Connock, city engr.

Mass., Pittsfield—Plans extending mains. $60,000. A. B. Farnham, city engr.

W. Va., Ridgeley—Election Aug. 1, $43,000 bonds, $21,750 for sewers and $21,750 for waterworks. J. H. Simmons, recdr.

O., Piqua—Plans to sell $450,000 bonds for new waterworks system. Noted May 8.

Mich., Detroit—Baker Land Co. having plans prepared 12,480 ft. 6 in. c.i. mains and 12,000 ft. 8 in. sewers in Meadowcrest subdivision. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., engrs.

Ill., Hinsdale — Takes bids in August, water softener, incl. building and special equipment. $50,000. Private plans.

Ill., Woodriver — Making preliminary plans two 26 in. porous concrete wells each about 110 ft. deep, main extensions, etc. $15,000 up.

Mo., Harrisonville — Defeated $100,000 bonds waterworks. H. F. Clark, city clk. Noted May 29.

Tex., Ft. Worth—City Park Bd. making plans reservoir for water in park system. $20,000. D. L. Lewis, city engr.

Tex., Ft. Worth—See "Sewers."

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Tex., Mart—Soon takes bids 110,000 cu. yd. embankment and 240 cu.yd. concrete in spillway. Former bids rejected. $150,000. Koch & Fowler, Central Bank Bldg., Dallas, engrs. Noted June 26.

Tex., Rusk—Cherokee Co. election Aug. 5, $65,000 bonds waterworks improvements and extensions. Address A. J. Thompson, mayor.

Tex., University Park (Dallas P. O.)—Election Aug. 16, $75,000 bonds, waterworks.

Tex., Wortham—Soon takes bids filtration plant. $15,000. Former bids rejected. Koch & Fowler, Central Bank Bldg., Dallas, engrs. Noted June 26.

Okla., Avant—Election July 18, new wells, pumps, extensions to distribution systems, 5,600 ft. 4 and 6 in. c.i. pipe. $25,000. Holway Eng. Co., Wright Bldg., Tulsa, engrs.

Okla., Clinton—Election Aug. 9, $80,000 bonds for dam, low lift pumping station, new pumps and mains. B. M. Hart, City Hall, Oklahoma City, engr. Noted Jan. 31.

Okla., Lawton—Election soon to vote on $35,000 bonds for 400,000 gal. pure water reservoir and extension to mains, etc.

Okla., Stillwater—Takes bids in August, waterworks, distribution system, dam, etc. $250,000. V. V. Long & Co., Oklahoma City, engrs. Noted July 3.

Calif., Bakersfield—Plans election to vote on $1,500,000 bonds to purchase existing water systems or construct new system. W. D. Clarke, city engr.

Ont., Leamington—Making plans 12 in. pipe line to lake and installing electric pumping equipmet. $50,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Toronto—East York Twp., plans 8,000 ft. 6 in. c.i. mains in Donlands Rd., McLean Blvd., Floyd, North Woodycrest, North Dewhurst, Sammon, Mortimer and Westwood Aves. $25,000. G. R. Jack, Sammon Ave., engr.

BIDS DESIRED

Mass., Boston—July 25, by Dept. Pub. Wks., City Hall, labor and materials etc. necessary to clean about 63,050 ft. 6- to

Waterworks (Continued)

18-in. water pipes in Brighton and Roxbury, (both Boston P. O.) $15,000. J. A. Rourke, comr.

Mass., Medford—(Boston P. O.)—July 25, by Water and Sewer Comrs. 52 Swan St., furnishing, 95 tons 12 in. c.i. water pipe for Water and Sewer Dept. A. A. Lucey, purch. agt.

N. J., Westfield—July 28, by Town Qouncil, drilling 2 or more test wells. T. F. Bowe, 110 William St., New York City, consult. engr. A. Blair, town engr.; adv. E. N.-R. July 24.

Ga., Atlanta—Aug. 21, at office of W. P. Price, city purch. agt. mixing chamber and chemical house; adv. E. N.-R. July 24.

Fla., Miami Beach—July 30, 18,000 ft. mains. C. W. Tomlinson, city clk.; adv. E. N.-R. July 24.

La., Shreveport—Aug. 7 (extended date) by W. T. Mayo, comr. Pub. Utilities, City Hall, extending waterworks and sewerage systems. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, engrs. Noted June 5.

Mich., East Tawas—July 28, by C. F. Klenys, city clk., 525 ft. 12 in. Bell & Spigot c.i. mains, relaying 525 ft. 16 in. c.i. mains, and constructing rein.-con. intake well, etc. Ruhling & Holdsworth, 16549 Woodward Ave., Detroit, engrs.

Mich., Grand Rapids—July 31, by F. H. Locke, city mgr., 2,600 lin. ft. 60 in. circular monolithic rein.-con., mains to filter plant, C. A. Paige, city engr.

Mo., Hannibal—July 30, by Bd. Pub. Wks., filtration plant, basins and structures for Riverside Park, also instruments and equipment for filtration plant. Burns & McDonnell, Interstate Bldg., Kansas City, engrs.

Tex., Austin—July 31, by W. D. Yett, mayor, and C. N. Avery, comr. Water & Light, one 2 stage 2,800 g.p.m. centrifugal pump, 320-330 ft. head driven by 500 hp. synchronous motor, one 5,200 g.p.m. centrifugal pump, 50 ft. head, driven by 100 hp. synchronous motor, one 3,900 g.p.m. centrifugal pump, 49 ft. head, driven by 75 hp. squirrel cage motor, all motors, 2,300 volt, 3 phase, 60 cycle, General Electric, Allis-Chalmers, Westinghouse or Crocker-Wheeler. C. E. Leonard, city engr., and John B. Hawley, 403 Cotton Exch. Bldg., Ft. Worth, consult. engr.

BIDS RECEIVED

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, July 16, from S. Gallucci, Railroad Ave., Corona, mains in 220th Pl., Douglas Rd., Bayview, Griffin, Hollywood, Warwick, 9th and 29th Aves., Murray and 213th Sts., $4,969, in Continental Ave., Ingraham, Lederer, Ramsey, Reynolds, Sybilla and Van Dyke Sts., Fremont, Johanna, Lydia, Theresa, Ursula, Viola and Wanda Places, $8,998. Noted July 10.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., July 16, mains in Bronx Park East, Barker, Golden, Laconia, Lurting, Mace, Mickle, Waring and Young Sts., from C. Del Blasio, 339 7th Ave., Mt. Vernon, $4,000; mains in Edgewater and White Plains Rds., Lurting, Newport, Radcliffe, Rhinelander and Rosedale Sts., Lawrence and Van Nest Aves., from Norton Eng. & Contg. Co., 510 West 149th St., $6,970. Noted July 10.

Calif., Los Angeles—Pub. Serv. Comn., 8,568 tons c.i. pipe, from Pacific Pipe & Supply Co., 1002 Santa Fe Ave., approximately $540,000. Noted July 3.

CONTRACTS AWARDED

Mass., Roxbury — Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, will build centrifugal pump plant, for Ward St., pumping station, here; by day labor. $50,000.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in 159th Ave., 115th and 116th Sts., here, to S. Gallucci, 38 Railroad Ave., Corona, $3,275, Elmhurst, Flushing, Folsom and Griffith Aves., Freemont, Lambert, Mary, McPherson, Shaler, 24th, 37th, 93rd, 94th Sts., Buskirk, Eva, Hemlock and Trimble Places, here, to J. A. Gregory, 351 East 124th St., New York, $8,874. Noted July 17.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., making and removing connections and setting additional hydrants in mains in 1st, 3rd, 5th, 8th, 10th, 11th and 12th Aves., King, Washington and Whitehall, East 26th, 34th, West 59th, 60th and 146th Sts., to Wataga Contg. Co., 308 Lenox Ave., $7,400. Noted July 17.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Alter, Anderson, Bement, Cameron Aves., etc., here, to N. De Stefano, 257 Glenn Ave., Tompkinsville, $28,939. Noted July 17.

Pa., Phila.—Bureau Water, Dept. Pub. Serv., to J. J. McHugh, 1617 Race St., 16 in. water pipe in Margaret and Tackawanna Sts., Contr. 673, $32,057, 24 in. pipe line in Spring Garden St., Contr. 686, $25,408, aeration flume and paving at Queen Lane Filters, Contr. 689, $28,250, patent connections in Lardners Point Pumping Sta., Contr. 692, $15,989, 16 and 20 in. pipe line in Cottman St., Contr. 690, $24,393; to Bulman Bros., 15th and Cumberland Sts., plumbing in Queen Lane Pumping Sta., Contr. 683, $3,266; to McArdle & Cooney, Inc., 519 Arch St., small pipe and fittings at Torresdale Filter Plant, Contr. 688, $7,885; to Buffalo Wire Wks. Qo., 9 South 7th St., fencing at various plans, Contr. 691, $16,088; to Penn Eng. & Constr. Co., 1205 Real Estate Trust Bldg., general improvement Queen Lane Sta., Contr. 682, $31,700. Noted July 17.

Fla., Tampa — City Comn., to Gauger Korsmo Constr. Co., Memphis, Tenn., Sect. A, buildings, etc., $466,014; to Amer. Water Softener Co., Sect. B, filter and chemical equipment $135,000; to Burfort, Hall & Smith, Amer. Trust Bldg., Birmingham, Ala., Sect. C, pumping machinery $81,732, Sect. D, horizontal water tube boilers $54,000, Sect. E piping and auxiliary machinery $42,965; to B. Thompson, Tampa, Sect F, c.i. water pipe $38,715, Sects. G and L, c.i. water pipe and waste drain $37,990; to Chicago Bridge & Iron Wks., Forsyth Bldg., Atlanta, Ga., Sect. J, elevated steel tanks and towers $41,150; to Alphons Custodis Chimney Constr. Co., Atlanta, Ga., Sect. K, radial brick chimney $5,945; to U. S. Cast Iron Pipe & Fdry Co., Amer. Trust Bldg., Birmingham, Ala., Sect. M, c.i. pipe and specials $202,026; to Iowa Valve Co., Oskaloosa, Ia., Sect. N, gate valves, etc., $17,530. Noted May 22.

La., Oak Grove—Laying water mains and installing light lines, to Montgomery Bros., Oak Grove; machinery and equipment for waterworks and light plant, to Fairbanks-Morse & Co., 900 South Wabash Ave., Chicago, Ill.; 50,000 gal. tank on tower, to Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, Ill.

Mich., Detroit—Bd. Water Comrs., furnishing 1,200 tons 6 in. c.i. pipe, to J B. Clow & Sons, Franklin and Harrison Sts., Chicago, Ill., $53.10 per ton; 500 tons 6 in. and 1,000 tons 8 in. c.i. pipe, to Lynchburg Fdry. Co., Peoples Natl. Bank Bldg., Lynchburg, Va., $53.10 and $53.35 respectively; 500 tons 6 in. and 1,650 tons 8 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., East Burlington Ave., Burlington, N. J., $53.10 and $53.35 respectively, 500 tons 8 in. c.i. pipe, to Amer. Cast Iron Co., Acipco St., Birmingham, Ala., $53.35.

Mich., Flat Rock—Constructing 2,440 lin. ft. 8 in. and 18,240 lin.ft. 6 in. c.i. pipe, 35 hydrants, etc., to Colman & Harding, Inc., 206 East Grand River Ave., Detroit, $38,460. Noted June 26.

Ill., Winthrop Harbor—For 1,230 lin.ft. 8 in. and 22,160 lin.ft. 6 in. c.i. pipe, 65 fire hydrants, 23 gate valves, etc., to Sieg Constr. Co., Waterloo, Ia., $58,205.

Sewers

PROPOSED WORK

Massachusetts — Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, having preliminary plans prepared, Mill Brook Valley Sewer Extension, Sect. 78, in Medford and Arlington (both Boston P. O.), $125,000. J. R. Rablin, 1 Ashburton Pl., engr.

W. Va., Ridgley—See "Waterworks."

Mich., Royal Oak—Made plans 4,032 ft. 24- to 48-in. circular Storm Water Sewer 5, and 4,045 ft. 48 in. Storm Water Sewer 6, both vitr. brick and concrete pipe. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ill., Chicago—Plans 2.5 mi. 2 and 5 ft brick, and 2.5 mi. 12 and 27 in. tile sewers in Harlem Ave. and adjacent streets. $300,000. H. E. Hudson, 207 City Hall., ch. engr. of sewers.

Ill., Rochell — Takes bids probably in August, sewage disposal plant and equipment, etc. $34,000. Randolph Perkins Co., 38 South Dearborn St., Chicago, engrs.

Wis., Milwaukee—Sewerage Comn., 508 Market St., making plans 100 x 500 ft. sludge storage building, 60 ft. high, steel and corrugated iron, in connection with disposal plant on Jones Island. To exceed $25,000. T. C. Hatton, c/o Owner, engr.

Mo., St. Louis—Soon takes bids Oakland Ave. Storm Outlet, etc., 570 ft. 54 in. and 70 ft. 70 in. drain, $8,627; also rein.-con. retaining walls landing and balustrade, at Grand Basin in Forest Park, $30,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis — Bd. Pub. Serv., 208 City Hall, soon takes bids, vitr. clay, segmental block, brick, concrete, vitr. or rein.-con. horseshoe sewer in Rock Branch Relief Sewer 1, $580,000; Werne Ave. Relief Sewer $385,000; Rock Branch Relief Sewer 2, $690,000. W. W. Horner, city engr.

Tex., Corpus Christi—Making plans extensive sewerage and disposal systems. $350,000. Alexander Potter, 50 Church St., New York City, engr.

Tex., Ft. Worth—Plans election to vote on $1,000,000 bonds sewers and waterworks extensions. D. L. Lewis, city engr.

Tex., Ft. Worth—Making plans sanitary sewers and water mains in Washington Heights $50,000, Foster Heights $75,000, Rosen Heights $40,000, Riverside $175,000, Arlington Heights $40,000, Van Zant $50,000, South Ft. Worth $290,000, Berkley $60,000, Brooklyn $330,000. D. L. Lewis, city engr.

Tex., Houston — Making plans 24 in. sanitary sewers in Caroline, Franklin and Commerce Sts. $25,000. J. C. McVea, city engr.

Tex., New Braunfels — Voted $60,000 bonds improving sewerage system. Address Mayor.

Calif., Arroyo Grande—Plans election to vote on $30,000 bonds extending sewerage system. Burch & Beck, Commercial Bank Bldg., San Luis Obispo, engrs. Noted Mar. 20.

Calif., Mayfield — See "Streets and Roads."

Calif., Oakland — See "Streets and Roads."

Calif., San Jose—Made plans outfall sewerage system 10,000 lin. ft. 60-in. probably pre-cast rein.-con. pipe, 20,000 lin. ft. 42 to 45-in. probably wood-stave pipe, etc., alternates will probably be taken for various kinds of pipe. W. Popp, city engr. Noted Feb. 7.

Ont., Fort Elgin—Election July 31, $35,000 bonds for new sewerage system. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs.

BIDS DESIRED

Mass., Boston—July 31, by Dept. Pub. Wks., City Hall, sewers in New England Ave., Aug. 1, in Leston St., July 24, in Mill St., Dorchester, (Boston P. O.), Aug. 4, in Wesley St., South Boston, July 24, in Bolster St., Roxbury (Boston P. O.), and July 25 Ethel St., West Roxbury (Boston P. O.). To exceed $25,000. J. A. Rourke, comr.

Mass., West Roxbury (Boston P. O.)—Aug. 6, by Dept. Pub. Wks., City Hall, Boston, sewers, Parkville and Realton Rds., Weld St., and Willowdean Ave., $25,000. J. A. Rourke, comr.

N. Y., Albany—July 21, by Bd. Contr. & Supply, laying 7,500 ft. sewers in Bingham, Lawn and McKown Sts., Pennsylvania and Myrtle Aves.; and extending Patroon Creek Sewer and branches; grading and laying sewers in Myrtle Ave. $30,000. J. G. Brennan, city engr.

N. Y., Brooklyn—July 30, by E. Riegelmann, pres., Brooklyn Boro., Boro Hall, sewers in Fort Hamilton Parkway, Hawthorne, Winthrop, 74th, Montgomery, and East 9th Sts.

New Jersey — Sept. 4, by Mayor and Council of Boroughs of Bergenfield and Dumont, Bergen Co., sewage treatment works and appurtenances. T. F. Bowe, 110 Williams St., New York City, consult. engr.; adv. E. N.-R. July 24.

N. J., Metuchen—Aug. 4, by Mayor and Boro Council, about 13 mi. 8- to 18-in. sewers, and disposal plant E. A. Burroughs, clk.; adv. E. N.-R. July 24.

Pa., Elkins Park—Aug. 5, at commissioners office outfall sewer along Tacony Creek through Cheltenham, Twp., Montgomery Co. Albright & Mebus, 1502 Locust St., Phila., civil engrs.; adv. E. N.-R. July 24.

Pa., Phila.—July 29, by Dept. Pub. Wks., Bureau Surveys, sewers, 76th Ave. North, 10th, Bingham, Wakeling and Fayette Sts., branch sewer in Frankford Ave.; removing old sewers and constructing new in Cleveland, Smedley and Carlisle Sts.

Pa., Southmont—See "Streets and Roads."

Md., Baltimore—July 30, by City Register, City Hall, sewers and drains in sewer Dist. G-13 and storm sewers in Dists. 32 and 49. B. L Crosier, hy. engr.; adv. E. N.-R. July 24.

Fla., St. Petersburg—Aug. 4, by S. S. Martin, dir. of Finance, storm and sanitary sewers; adv. E. N.-R. July 24.

O., Akron—Aug. 4, by W. F. Peters, dir. Pub. Serv., Wolf Ledge Run Trunk Sewer, 2,215 ft. 30, 72 and 126 in. brick, 450 ft. 94x144 in. and 615 ft. 96x150 in. concrete pipe, $350,000. J. E. Root, 300 Delaware Bldg., engr. Noted July 17.

O., Columbus — July 30, by Comrs. Franklin Co., 6,935 ft. 8 to 29 in. vitr. pipe, etc., North High St., Contr. 30, $20,000, and 13,254 ft., 8 to 12 in. vitr. pipe, etc., Highland Garden, Contr. 40, $29,000.

Sewers (Continued)

Mich., Jackson—Aug. 6, by City Clerk, constructing Liberty St. Relief Sewer, 3,150 ft. 7 ft. 6 in. x 7 ft. 6 in. monolithic concrete, and 2,640 ft. 66 in. circular rein.-con. pipe. J. E. Whittaker, city mgr.

Mich., Milford — Aug. 1, by E. Strang, village clk., 7,500 ft. of 8 to 15 in. vitr. crock sewers. Hubbell, Hartgering & Roth, 2348 Penobscot Bldg., Detroit, engr.

Mich., Owosso—July 28, by B. K. Lucas, city clk., 3,790 ft. 8 in., 410 ft. 10 in., and 2,059 ft. 24 in. vitr. or concrete pipe sanitary sewers in various streets.

Ill., Elgin — Aug. 20, by Bd. Trustees Sanitary Dist. of Elgin, 12 Spurling Block, 9,000 ft. intercepting sewer and 5,000 lin.ft. connections, Contr. 1, and sewage treatment plant, Contr. 2, Pearse, Greely & Hansen, 6 North Michigan Ave., Chicago, Ill., consult. engrs.; adv. E. N.-R. July 24.

Ill., Schiller Park—See "Waterworks."

Wis., Milwaukee—August 1, by J. H. Fowles, secy., Sewage Comn., 508 Market St., intercepting and regulating structures incl. sewer connections in various parts of city; steam heating system in filter and dryer house in connection with sewer disposal plant, Jones Island. To exceed $25,000 each.

Wyo., Casper—See "Streets and Roads."

Calif., San Diego—August 4, by A. H. Wright, city clk., sewerage system at Mission Beach, incl. 27,945 lin.ft. 6 in., 5,470 lin.ft. 10 in., 6,781 lin.ft. 12 in. concrete pipe, 127 manholes, 6 flush tanks, one settling tank, 3 pumping stations, 1,200 lin. ft. c.i. outfall pipe. F. A. Rhodes, city engr. Noted June 19. Former contract rescinded.

BIDS RECEIVED

N. J., Jersey City — Bd. City Comrs., Sect. 2 of trunk sewer, from Hannen Constr. Co., Perth Amboy, $1,147,110. Noted July 3.

N. J., North Bergen (branch Weehawken)—North Bergen Twp. Comn. improving sewers in several streets, from Clinton Asphalt Co., West Hoboken. $1,595,511.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro. pres., Boro Hall, repairing sewers in 11th St., to J. F. Colgan Co., 233 Bway., New York City, $19,840; constructing sewers **(e. e. means engineers estimate)**, Albany and 12th Aves., to C. F. Vacharas, 645 40th St., 94.45% e. e. $50,038, and 95% e. e. $1,264 respectively; Essex St., to S. Ambrosio, 1016 60th St., 74.95% e. e. $17,629; 72nd St. and Fort Hamilton Parkway, to Tozzi Contg. Co., 136 63rd St., 82.45% e. e. $4,840, and 92.24% e. e. $1,890 respectively; East 7th St., to R. Iovino, 77% e. e. $1,050. Noted July 17.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Lawrence St. and Peck Ave., type "B," to J. D. Walsh, Inc., 132 4th St. $383,277. Noted July 10.

Pa., Phila.—Bureau Surveys, Dept. Pub. Wks., to P. Ventresco, 6325 Chew St., sewers in Andrews Ave. from Limekiln Turnpike to Ogontz Ave., $10,596, 16th St. from Olney to Grange Aves., $38,469; to J. J. McHugh, 1617 Race St., Avondale St. from Windsor to Trinity Sts., $6,800, 2nd St. from Champlost to Spencer Aves., $4,760, Comby St. from Walker to Tackawanna Sts., $12,029, Conlyn So. from Old York Rd. to 16th St., $10,296, Day St. from Girard Ave. to 124 ft. southeast, $1,473, Durham St. from Crittenden St. to Stenton Ave., $9,036, Grays Ave. from 70th to 71st Sts., $4,103, Keystone St. from Vankirk to Howell Sts., $2,980, Manayunk Ave. from Fountain to Gates Sts., $11,182, 72nd Ave. N., from Walnut Lane to 21st St. and 21st St. from 72nd to 74th Aves., $30,294, Torresdale Ave. from K to L Sts., $8,987, 3rd St. from Champlost to Spencer Aves., $5,709, Vankirk St. from Torresdale Ave. to Keystone St., $13,098, Williard St. from Tulip St. to Aramingo Ave., $3,662, Mitchell St., $8,427; to W. H. Yetman, Jr., 601 Lincoln Bldg., Clapier St. from Schuyler St. to Wissahickan Ave., $12,006, Poplar St. from Corinthian Ave. to 22nd St., $8,923, Sedgwick St. from McCallum St. to Lincoln Ave., $15,406; to Curtis Bros., State Rd. and Unruh St., Comby St. from Delaware River to Tacony St., $21,579; to W. H. Garson, 5033 Brown St., 57th St. from Upland Way to Lebanon Ave. and 58th St. from Lebanon Ave. to Woodbine St., $36,246, Upland Way from 54th St. to Montgomery Ave., $11,263, Upland Way from 57th St. to Malvern Ave., $22,205; to F. T. Buckins, Jr., 4050 Kensington Ave., Granite St. rfom Torresdale Ave. to Worth St., $4,580, Haworth St. from Torresdale Ave. to Tulip (Edmond) St., $2,646, Hunting Park Ave., from M to Lycoming Sts. and O St. from Torresdale to Huntington Park Aves., $76,922, Pratt St. from Torresdale Ave. to Worth St., $4,423; to V. J. Perna, 316 North 65th St., Hope St. from Clearfield to Lippincott Sts., $1,796, Jasper St. from Orleans St. to point 97 ft. north, $991, to J. Moss, 1652 Wakeling St., Howell St. from Erdrick to Walker Sts., $4,634, Schiller St. from Belgrade to Gaul Sts., $2,974; to A. Di Sandro & Son, 3906 North 5th St., Montana t. from Boyer to Sprague Sts., $12,736, to Higgins & Rielly, 601 Real Estate Trust Bldg., Smick St. from Fountain to Cinnaminson Sts., $16,395; to P. and A. J. Ellis, 3342 North 11th St., Somerville Ave. from Broad St. to Old York Rd., and Old York Rd. from Somerville to Clarkson Aves., $12,588, 6th St. from Nedro to Champlost Aves., $8,835; to E. Tourison, Jr., 1517 Bankers Trust Bldg., Wheatham St. from Sedgwick to Hepburn Sts., and Hepburn St. from Wheatham St. to Cresheim Rd., $16,788; to A. A. Pastore, 5903 Woodland Ave., Upland Way from 56th to 57th Sts., $6,934.

O., Upper Arlington (Columbus P. O.)—Constructing 3,500 ft. 8- and 12-in. pipe, etc., sanitary sewers in university addition, Sewer Dist. 4, to Ames Bros., Columbus, $31,110. Noted July 3.

Mich., Detroit—Dept. Pub. Wks., to W. Blanck Co., 40 Seven Mile Rd., Sewer 4154 $58,515, Sewer 4168 $2,067, Sewer 4169 $6,304; to Western Constr. Co., 1208 Ford Bldg., Sewer 4156 $1,516, Sewer 4157 $6,985; to J. Di Ponio Co., 3608 Riopelle St., Storm Sewer 3852 $7,199, Storm Sewer 4174 $7,288; to P. Cappello, 2255 St. Joseph Ave., Storm Sewer 3150 $7,100, Storm Sewer 4172 $5,740; to J. Leo, 1762 Puritan Ave., Sewer 4171 $3,135; to Louwers & Sommerville, 1121 Book Bldg., Sewer 4155 $2,590; to A. Singelyn, 424 Book Bldg., Sewer 4146 $6,439. Noted July 17.

Mich., Detroit—Dept. Pub. Wks., 2,480 ft. Bonaparte Ave. Arm of Wyoming Ave. Sewer, 4 ft. 6 in. to 5 ft. cylinder, to S. Fattore, 2201 St. Joseph Ave., $34,721, 2,594 ft. Fenkell Ave. Arm of Wyoming Ave. Sewer, to Detroit Drainage Constr. Co., 5099 LeMay Ave., $41,360.

Ill., Chicago—For 3.5 mi brick and 5.5 mi. tile sewers in Bryn Mawr Ave. from Kostner to Cicero Aves and adjacent Sts., incl. 2 mi. 5 ft. and 4 mi. 3 and 4 ft. mains, 4 laterals for 40 city blocks, to P. J. McNulty, 133 West Washington St., $343,566. Engrs. est. $362,000.

Ill., Chicago—For 4,200 ft. 2 to 5 ft. brick sewers in 108th St. from Ave. O to Indiana State line, to O. Scully, 7658 Laflin St., Chicago, $9,915. Engrs. est. $84,228.

Wis., Madison—O. Mayer Co., North St., A. C. Bolz, supt., will build sewage treatment plant by day labor. Private plans. Noted July 3.

Wis., Milwaukee—Dept. Pub. Wks., vitr. storm and sanitary sewers in Albert Pl. and Edgewater Ave., to Milwaukee Sewer & Drainage Co., 928 Humboldt Ave., $3,792; 55th St., to J. B. Fonestal Co., 215 15th St., $1,489; 55th, 56th, 57th and Center Sts., to Szukalski & Matke, 1089 American Ave., $4,391; Maple St. and Newport Ave., to A. Kehrein, 1312 10th St., $781; Townsend St., to W. T. Werner, 675 Hi Mount Blvd., $1,161, 1,382 ft. rein.-con. box sewers and 1 storm sewer outlet in right-of-way north of Lake St. from 27th St. to Mud Creek, to Clayton Constr. Co., 397 Farwell Ave., $46,889. Noted July 10.

Kan., Poala—M. Bachman, city clk., 12,722 lin.ft. 8 and 10 in. vitr. clay pipe sewers, 164 lin.ft. manholes, 5 drop manholes, 6 lamp holes, flush tanks, etc. To R. O. Shriver, Salina, approximately $26,000.

Mo., St. Louis — Bd. Pub. Serv., 208 City Hall, extending Southern Sewer, to Frazier Davis Constr. Co., Arcade Bldg., $38,446. Noted July 10.

Tex., Dallas—Storm sewer in Oakland Ave., to R. J. Estep Co., Deere Bldg., $67,030. Noted July 17.

Tex., Dallas—For 2½ mi. 36 in. concrete sewer in Cody St., to Smith Bros., Sumpter Bldg., $173,730. Engrs. est. $125,000.

Ont., Toronto—East York Twp., 3,590 ft. circular brick sewer in tunnel construction, etc., in Cosburn Ave., to W. R. Worthington, 57 Lascelles Blvd., $103,983. Engrs. est. $100,000.

Waste Disposal

PROPOSED WORK

Conn., Greenwich — Plans incinerator plant, on Hamilton Ave. $50,000.

Bridges

PROPOSED WORK

Mass., Boston—Metropolitan Dist. Comn., 1 Ashburton Pl., making plans, new "Cottage Farm Bridge," rein.-con., over Grand Junction branch of Boston & Albany R.R., on Commonwealth Ave. To exceed $1,000,000. J. R. Rablin, 1 Ashburton Pl., engr. Noted Apr. 12, 1923.

N. J., Trenton — Pennsylvania R.R., Broad St. Sta., Phila., Pa., plans steel and wood bridge with 34 ft. roadway, two 8 ft. sidewalks, over Delaware and Raritan Canal at South Broad St., $50,000. City Comn. to bear small part of expense. A. B. Shand, c/o ch. engr. A. Swan, city engr.

Fla., West Palm Beach—Palm Beach Co. plans rebuilding Jupiter Bridge, concrete and steel; frame bridge over canal at Prosperity Farms; concrete and steel bridge on Dixie Highway at Boynton Canal; bridge over North New River Canal at South Bay, and bridge over Miami Canal at Ritta Locks. C. H. Holtslaw, West Palm Beach, engr.

Louisiana—State Legislature passed bill giving authority to State Hy. Comn. to build 14 mi. trestle over Lake Pontchartrain, from West End, a suburb of New Orleans, Orleans Parish, to Mandeville, St. Tammany Parish.

Ill., East St. Louis—Bd. Trustees East Side Levee & Sanitary Dist., 225A Collinsville Ave., takes bids about Aug. 22, three 80 ft. steel truss span bridge, 24 ft. roadway, wood block pavement, on Lake Dr., Project 12, St. Clair Co. Private plans.

Tex., Carrizo Springs—See "Streets and Roads."

Tex., Pecos — Reeves Co., takes bids after Aug. 1, 192 ft. steel truss and concrete girder bridge across Pecos River on State Highway 1, between Reeves and Ward Counties. $25,500. S. S. Posey, co. engr. Noted July 17.

Que., Montreal—Plans 6,938 ft. cantilever suspension bridge with 60 ft. roadway, 10 ft. sidewalks, over St. Lawrence River between Delormier Ave., and St. Helens Island.

Ont., Echo Bay—Northern Development Branch of Provincial Highways, Parliament Bldgs., Toronto, plans 260 ft. steel bridge probably 3 spans, concrete abutments and piers, over Echo Bay River. $40,000-$50,000. C. H. Fullerton, Parliament Bldg., engr.

BIDS DESIRED

Conn., Bristol—New York, New Haven and Hartford R.R., New Haven, taking bids for bridge at Alder St., here. $25,000. I. D. Waterman, New Haven, assistant to ch. engr.

N. J., Camden—Aug. 11, at Court House, Camden Co., bridge over Cooper River at Kaighns Ave., J. J. Albertson, co. engr.; adv. E. N.-R. July 24.

Tennessee—See "Streets and Roads."

Ohio—Aug. 1, by Dept. Hys. & Pub. Wks., bridges in various counties.

Illinois—See "Streets and Roads."

Ill., Aurora—Aug. 4, (extended date), by Bd. Local. Impvts., constructing bridge and concrete dam over west branch of Fox River, at Main St., also paving sidewalks and street lighting system. J. P. Wetz, secy. adv. E. N.-R., July 24. Noted July 24.

Ill., East St. Louis—Aug. 26, by Bd. Trustees East Side Levee & Sanitary Dist., superstructure for 225 A Collinsville Ave., three 80 ft. span pony truss bridge over Park Dr. on Project 12. $25,000. Private plans.

Kan., Kansas City—Aug. 14, by Bd. City Comrs., viaduct with approaches over tracks Chicago, Rock Island & Pacific R.R., at 7th St. H. Payne, city clk.; adv. E. N.-R. July 24.

Tex., Laredo—July 29, by A. Winslow, judge Webb Co. 1.09 mi. bridge on State Highway 12-A. 11 concrete girder and slab spans. $40,000. T. E. Huffman, co. engr.

Tex., Webb—July 29, by T. E. Huffman, engr. Webb Co., superstructure bridge with one 20 ft. concrete slab, two 36 ft., four 26 ft. and five 20 ft. girder spans, 5x5x36 ft. concrete culvert. also grading and graveling 1.09 mi. State Highway 12-A. $50,000.

Okla., Oklahoma City—July 29, by M. Pishek, city clk., 800 ft. steel bridge with 8 spans, concrete piers. Work to be done in two sections, embankments and bridge. $350,000. R. S. James, Court House, engr. Noted Dec. 15.

Wash., Aberdeen—July 30, by City clk., Strauss bascule type, leaf, heel trunnion, main span 145 ft. long, 27 ft. roadway, with two 5 ft. sidewalks on each side, retaining wall and approaches over Wishkah River. $200,000. E. G. Hunt, city engr.

BIDS RECEIVED

Pennsylvania—State Dept. Hys., Harrisburg, July 15, bridge over west branch of Susquehanna River, Route 25, Northumberland, Snyder and Union Counties, from G. W. Rockwell, Sunbury, $405,112.

Pa., Phila.—Delaware River Bridge Joint Comn., structural metalwork Phila. approach, Contr. 17, Camden, N. J., approach Contr. 18, from Amer. Bridge Co., Widener Bldg., $1,511,850 and $1,793,650 respectively. Noted June 26.

Bridges (Continued)

CONTRACTS AWARDED

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Old Colony Parkway Bridge and Culvert from Dorchester Bay to Neponset, to J. H. Fannon, 28 Hickley St., Somerville, $181,150; Neponset Bridge between Quincy and Neponset, to Crandall Eng. Co., 102 Border St., East Boston, $600,000.

New Jersey—See "Streets and Roads."

Fla., Key West — See "Streets and Roads."

Mississippi — State Hy. Dept., Jackson, rein.-con. bridge over Pearl River, Federal Aid Project 170, Hinds Co., to Jefferson Constr. Co., 823 Poydras St., New Orleans, La., $143,477.

Louisiana—State Hy. Dept., Reymond Bldg., Baton Rouge, 53 creosoted pile bridges, 13 to 912 ft. long, on New Orleans Hammond Rd., Tangipahoa and St. John the Baptist Parishes, to Austin Bridge Co., 1813 Clarence St., Dallas, Tex., $172,425. Noted July 17.

Kentucky—State Hy. Dept., Frankfort, 100 ft. steel span bridge over Georges Creek, Lawrence Co., and 474 ft. 5 span steel bridge over Salt River, Bullitt and Spencer Counties, to Vincennes Bridge Co., Vincennes, Ind., $11,572 and $33,040 respectively, concrete substructure to bridge over Salt River, to H. Bickel, 443 Garden St., Louisville, $43,617. Noted June 26.

Ind., Lafayette—Tippecanoe Co., concrete arch bridge, 30 ft. over Flint Creek, to West Lafayette Engineering Co., West Lafayette. $26,000. Engrs. est. $27,500.

Ia., Audubon — Audubon Co. 5 pony truss bridges, timber floor piling abutments, to Jensen Oonstr. Co., Kimballton, $23,605; 1 thru girder timber floor piling abutments, to Standard Bridge Co., 1302 City Natl. Bank Bldg., Omaha, Neb., $2,925.

Ia., Marengo—Auditor Marengo Co., 1 thru truss bridge, to Federal Bridge Co., 1001 Bankers Trust Bldg., Des Moines, $39,974; 7 box culverts to J. J. Gross, Decorah, $3,710. Noted June 26.

Ia., Tipton — Cedar Co., to Snyder & Johnson, Humboldt, 23 culverts, 3 I-beams and moving 1 pony truss bridge, $17,980; to F. J. Smith, Tipton, 6 culverts, 2 I-beams and moving 1 pony truss bridge, $11,572; to S. K. Johnston, Tipton, 18 culverts, 2 I-beams, and moving 1 pony truss bridge, $14,634.

South Dakota—See "Streets and Roads."

Wyoming—State Highway Comn., Cheyenne, 159 ft. rein.-con. arch bridge over Shoshoni River at Cody, Federal Aid Project 129, Park Co., also two 120 ft. steel truss span concrete bridge over Gros Ventre Creek, at Teton, Federal Aid Project 163 A, Jackson Co., to H. S. Crocker, 306 Tramway Bldg., Denver, Colo., $24,758 and $44,248 respectively. Engrs. est. $27,000 and $36,000 respectively. Noted June 26.

Mont., Glendive—State Highway Comn., Helena, six 216 ft. steel spans on 6 concrete piers, and 1 abutment pier, concrete with concrete deck, 20 ft. roadway, etc., over Yellowstone River, Federal Aid Project 213, Dawson Co., here, to Boomer, McGuire & Blakeslee, Great Falls, Mont., $273,939. Noted May 29.

Tex., Carthage—See "Street and Roads."

Tex., La Grange—Fayette Co., three 205 ft. steel trusses with eighteen 37 ft. concrete deck girder spans, etc., over Colorado River, to Austin Bridge Co., 1813 Clarence St., Dallas, $268,061. Engrs. est. $280,000. Noted July 10.

Calif., Los Angeles—Rein.-con. viaduct, 9th St., over Los Angeles River, to North Pacific Constr. Co., Detwiler Bldg., $401,897. Noted June 19.

Dams

PROPOSED WORK

Tex., Cotulla—La Salle Co. and International Great Northern Ry., making plans irrigation dam on Nueces River, earth and rein.-con. $2,500,000. Nagle, Witt & Rollins, Courthouse, Dallas, engrs. Noted June 5.

Ore., Klamath Falls—California-Oregon Power Co., having plans prepared for diversion dam, 7,000 cu.yd. concrete, 2 tunnels one 2,500 ft. long and other 1,200 ft. long, both 16 ft. diam., 1,200 ft. wood stave penstock, 10,000 yd. excav. and power house with two 20,000 hp. units. $3,000,000. Private plans.

Calif., Auburn—See "Excavation, Drainage, Irrigation."

Calif., Oakland—R. E. Hartley, ch. engr Oakdale Irrigation Dist., preparing estimates for Beardsley Flat Project, incl. dam, 200 ft. high to impound 60,000 acre ft., 550,000 cu.yd. rock fill, 6,000 cu.yd. rock excav. in cutoff trench and spillway, $1,549,200; also dam, 145 ft. high to impound 30,000 acre ft., 215,000 cu.yd. rock fill, 5,800 cu.yd. rock excav. in cutoff trench and spillway, $814,520.

Quebec—J. M. M. Robertson, 618 Careton Ave., Westmount, soon takes bids constructing series of dams on water courses of Des Allumettes, Des Trembles and Chaudiere, St. Maurice Co. J. M. Robertson Ltd., 20 St. Nicholas St., Montreal, engrs.

BIDS DESIRED

Ill., Aurora—See "Bridges."

Railways

PROPOSED WORK

Texas—J. McMahon, Travis Bldg., San Antonio, purchased Asherton & Gulf Ry. lines, and plans extending railway 15 mi. from Asherton to Carrizo Springs and 40 mi. from Carrizo Springs to Eagle Pass, also constructing large ice plant at Asherton to care for vegetable shipment, etc. $600,000. Private plans.

California—Los Angeles Flood Control Dist., making plans 10 mi. railroad from Azusa to San Gabriel River dam site for transportation of material and equipment. J. W. Reagan, ch. engr. for dist.

BIDS DESIRED

Quebec—July 25, by T. T. Irving, ch. engr., Canadian Natl. R.R., New Union Sta., Toronto, Ont., 12 mi. line from Fresniere to Renfret Junction. $2,000,000.

CONTRACTS AWARDED

Tennessee — Southern Railway System, 4th & Sycamore Sts., Cincinnati, O., 51 mi. standard gage track, 3 mi. classification yard, 2,929 cars capacity, incl. 34 stall round house, near Knoxville, machine shops, power house, retaining wall, water supply, grading, etc., to Foundation Co., 120 Liberty St., New York City.

Excavation, Drainage, Irrigation

PROPOSED WORK

Ind., Peru—Peru Flood Control Dist., takes bids about Sept. 1, earth levees, concrete walls, drainage ditches, etc. T. N. Jacob, Railway Exch. Bldg., St. Louis, Mo., engr. Noted May 29.

Ia., Sioux City — Woodbury Co. plans surveying about 12 mi. Lamb D. D. 32, 600,000 cu.yd. excav. $60,000. W. M. Pritchard, co. aud.

Mo., Kennett—Dunklin Co. D. D. 39, c/o Co. Clerk, making preliminary plans 2.3 mi. new ditches, and about 28.4 mi. ditch enlargement, 677,000 cu.yd. excav. $125,000. C. E. Smith, Railway Exch. Bldg., St. Louis, engr.

Tex., Childress—See "Unclassified."

Tex., Ft. Worth—Tarrant Co. election Sept. 9, $2,000,000 bonds to create county wide conservation district control of Trinity River and miscellaneous streams. E. Moore, co. judge.

Tex., Kaufman — Kaufman Co. Levee Dist. 4, taking new bids 12 mi. ditch and 1,000,000 cu.yd. embankment. $20,000. Former bids rejected. B. F. Williams, Rosser, engr. Noted June 12.

Calif., Auburn—Camp Far West Irrigation Dist., making plans concrete, dam 55 ft. high, and 230 ft. long on top, 2 mi. of main canal and system of distributing canals, in Placer and Yuba Counties. $125,000. J. A. Shields, Auburn, consult. engr.

Calif., Fresno—City and Fresno Irrigation Dist., making plans widening canals in connection with drainage of sewer farm. $50,000. G. L. Swendson, Fresno, engr. for Dist.

Calif., Tracy — Banta-Carbona Irrigation Dist. voted $705,000 bonds for irrigating 14,000 acres of land, constructing pumping plants, canals, laterals, etc. W. D. Harrington, ch. engr. for dist. Noted June 26.

BIDS DESIRED

Miss., Ripley—Aug. 11, by F. B. Smith, Clear Creek D. D. 76,800 cu.yd. drainage ditches, etc.

Ky., Dixon—July 21, by Bd. Drainage Comrs. Webster Co., constructing O. C. Vaughan Pub. Ditch, 308,350 cu.yd. excav., reconstructing Caney Arm, 20,433 cu.yd. excav., and 25.78 acres clearing right-of-way. R. L. Jackson, pres.

Mo., Cape Girardeau—J. S. Kocktitzky, contractor taking bids 30,000 cu.yd. excav., suitable for Bay City or drag line in Cache River D. D. 2, Greene Co., Ark.

Tex., Sierra Blanca—Aug. 2, by Hudspeth Co. Conservation & Reclamation Dist. 1, 41 mi. drain and 30 mi. canals with structures, 2,000,000 cu.yd. excav. along Rio Grande River from west county line. $150,000. C. M. Ainsworth, Sierra Blanca, engr. Noted May 29.

Calif., Santa Ana—July 29, by A. Cole, Secy. Newhope D.D., First Natl. Bank Bldg., trench, backfill, etc., 9,058 ft. 24 in., 2,770 ft. 21 in., 3,080 ft. 18 in., 15,292 ft. 15 in., 3,308 ft. 14 in., 7,799 ft. 12 in., 26,607 ft. 10 in., 40,166 ft. 8 in. pipe; trench, and backfilling two 30 ft. lengths 14 in., one 30 ft. length 16 in., three 30 ft. lengths 12 in. and one 126 ft. length 10 in. corrugated iron pipe; excav., one concrete sand box, 80 manholes, 23 observation holes, etc. R L. Loucks, Box 16, engr. Noted July 17.

CONTRACTS AWARDED

Miss., Water Valley — Johnson Creek D. D., c/o W. B. Hunter clk Chancery Co., about 5.25 mi. open ditch work, to McWilliams Co., McCall Bldg., Memphis, Tenn., at $0.139. per cu.yd.

Ark., Pine Bluff—Plum Bayou D. D., levee across Ash Flat River at southern terminus of Plum Bayou levee, to J. McNulty, 220 Park Pl., at $0.425 per cu. yd. Noted July 17.

Calif., Venice—Earth slit and gravel fill in Leona Ave., to United Dredging Co., Central Bldg., Los Angeles, $30,558.

Streets and Roads

PROPOSED WORK

Massachusetts—Metropolitan Dist. Comn. Div. Highways, 1 Ashburton Pl., Boston, having preliminary plans prepared, improving, Old Colony Parkway, Mt. Vernon St., along Dorchester Bay near Savin Hill Ave. under railroad near Popes Hill Station. $180,000. J. R. Rablin, 1 Ashburton Pl., Boston, engr.

Connecticut — State Highway Comn., Hartford, plan concrete road about 10 mi. Main St., $300,000; about 5 mi. Moody Mill Bridge, Kings Highway, Elliot St., $548,755. J. A. McDonald, comr.

Mass., Quincy—(Boston P. O.)—Plans rebuilding Hancock St., $40,000. P. F. O'Brien, city engr.

Mass., Medford—(Boston P. O.)—Plans extending various streets, $52,000. C. Connock, city engr.

Conn., Bristol—Plans widening and concrete paving Main St., $25,000. C. B. Buell, city engr.

N. Y., New York—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., rejected bids July 10, grading, curbing, etc. Needham Ave. Will readvertise.

New Jersey—State Hy. Comn., Trenton, plans concrete paving 4½ mi. Route 20, from Glassboro to Malaga, Cumberland Co. $200,000. W. C. Sloan, Broad St., Bank, Trenton. engr.

N. J., Livingston—Essex Co., plans grading and paving 3,850 ft. Mt. Pleasant Ave., 9,258 sq.yd. granite block on 6 in. concrete and 3,065 sq.yd. 8 in. rein.-con. pavement, 2,000 cu.yd. earth and 13,000 cu.yd. rock excav. $180,000. W. A. Stickle, Court House, Newark, engr

N. J., Toms River — Bd. Freeholders Ocean Co., soon takes bids for S. C. O. State Highway specifications to treat 47,000 sq.yd. gravel and S. P. O. to treat 2,400 sq.yd. J. M. Abbott, Toms River, engr.

Pa., Pittsburgh—Plans grading, paving and curbing Los Angeles Ave. from Shiras to Mackinaw Sts., 33 ft. $40,000. City c/o Dept. Pub. Wks., City-County Bldg., engrs.

W. Va., Ronceverte—Greenbrier Co. election Aug. 2, to vote $130,000 bonds for improving roads in Williamsburg Dist. H. L. Handlay, Ronceverte, engr.

Fla., Clearwater—Pinellas Co. election Aug. 12, $245,000 bonds constructing roads, etc., in Special Road and Bridge Dist. 4, $70,000 bonds, 5½ mi. Sect. 1, $60,000 5 mi. Sect. 2, $40,000 Sects. 3 and 4, and $25,000 Sect. 4; $50,000 constructing roads and bridges on Sects. 6, 7 and 8. J. M. Brown, co. clk. Clearwater.

Fla., Ft. Pierce—St. Lucie Co. making surveys constructing 16.6 mi. highway from Ft. Pierce to Gosling. $185,000. E. H. Collins, Jr., Ft. Pierce, engr.

Fla., Kissimmee—Osceola Co. defeated $100,000 bonds improving Narcoosa Orange Co. line. Rd. J. D. Overstreet Co. clk. Noted June 12.

Fla., West Palm Beach—Palm Beach Co. making surveys constructing 8 mi. road from Bascoms Point to Canal Point. $96,000. C. H. Holtslaw, West Palm Beach, engr.

Miss., Brookhaven—Making preliminary plans grading and surfacing with rein.-con., asphaltic concrete or other hard surface, 10 blocks various streets, 30 ft. J. D. Nixon, city clk.

Miss., Prentiss — Jefferson Davis Co. voted $250,000 bonds constructing roads.

Miss., Quitman—Clarke Co. soon takes bids graveling 15 mi. Meridian-Mobile Rd., branch of Mississippi Valley Rd., 18 ft.

Streets and Roads (Continued)

H. C. Dietzer, Jackson, engr. Noted June 26.

Miss., West Point—Bd. Supervs. Clay Co. election Aug. 2, $100,000 bonds improving roads.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, soon takes bids grading and surfacing, probably macadam, 1.5 mi. Hartsville-Sumner Co. line Rd., 14 ft., Trousdale Co.; grading, bridging, etc., 7 mi. Trenton-Dyer Rd., Gibson Co. J. G. Creveling, highway comr. Noted May 29 and Apr. 10.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans grading and surfacing 5 mi. Bluff City-Carter Co. line Rd., 12 ft., Sullivan Co. J. G. Creveling, highway comr.

Tennessee—State Dept. Hys. & Pub. Wks., Nashville, takes bids about July 26, grading, bridges, etc., 8 mi. Dyersburg-Lauderdale Co. line Rd., Dyer Co. J. G. Creveling, highway comr.

Tenn., Knoxville—Knox Co. plans rebuilding portions of Severnville, Halls Cross Roads, Ball Camp and Central Ave. Pikes, also oil surface treating several roads. $100,000. J. W. Spradlin, Court House, engr.

Tenn., Lebanon—Election soon $350,000 bonds paving 5 mi. city streets. A. B. Cleny, city engr.

Tenn., Maryville — Blount Co. plans election Sept. 20, to vote $380,000 bonds for roads, probably macadam limestone

Kentucky—State Hy. Dept., Frankfort, plans grading 7 mi. Jackson Highway, 26-30 ft., Barren Co., Binghamton-Fonde Rd., Bell Co., 16 mi. Marion-Union Co. line Rd., 24 and 28 ft., State Project 8, Crittenden Co., 6 mi. Bromley-Glenco Rd., 24 and 28 ft., State Project 49, Owen and Gallatin Counties; constructing and paving 2.1 mi. Fulton-Hickman Co. line Rd., 18 ft., State Project 54, Fulton Co.; reconstructing 4 mi. Lexington-Paris Rd., 18 ft., State Project 20, Bourbon Co. J. S. Boggs, highway engr.

Ky., Ashland—Plans improving various streets. $25,000. A. Salisburg, Mayor.

O., Akron—Comrs. Summit Co. take bids in August, grading clearing, grubbing, and paving, 1.502 mi. Barberton-Springfield Rd. 14, Sec. C, 14,400 sq.yd. 2 in. asphaltic concrete or 15,400 sq.yd. 8 in. rein.-con. $70,000, also 4.12 mi. Cleveland-East Liverpool Rd. I.C.H. 12, 16 ft., 39,200 sq.yd. 1½ in. bituminous concrete or 8 in. rein.-con., 36,800 sq.yd. 2 in. bituminous concrete, $152,000. R. E. Willems, Court House, engr. Noted Mar. 27.

O., Akron—Comrs. Summit Co. takes bids in September or October, grading and paving 2.58 mi. Richfield-Hudson Rd. 19, Sect. B, 16 ft., $133,000; also 1.2 mi. Flickinger-Sanitarium Rd. 136, Sect. A, $52,000. R. E. Willems, Court House, engr.

O., Akron—W. F. Peters, dir. Pub. Serv. soon takes bids grading, laying sidewalks, gutters and cindering 1,025 cu.yd. Fuller St., $14,000, and 900 cu.yd. Brittain Rd., $12,000; grading, curbing, laying sidewalks, and brick or asphalt paving 4,845 sq.yd. Ira Ave., $39,000. E. A. Kemmler, 300 Delaware Bldg., engr.

O., Akron—Comrs. Summit Co., take bids in late fall, grading and paving 6,000 ft. Hammond's Corners-Ira Rd. 46, Sect. B-1, 16 ft., traffic mound macadam. 8 in. slag aggregate over 7,000 sq.yd. miscellaneous material. $28,000. R. E. Willems, Court House, engr., Noted Mar. 27.

O., Ashland—Ashland Co. plans improving 6 mi. Ashland-Oberlin Highway, 20 ft. $200,000.

O., Canton—Plans paving ½ mi. Buckeye Pl. S. W., 16 ft., $27,000; improving Garfield Ave. S. W., from 6th to 10th Sts., $30,000. W. E. Sarver, City Hall, engr.

O., Canton—Plans improving ½ to ¾ mi. 18th St., N. W., from Cleveland Ave. to Fulton Rd. N. W. $30,000. W. E. Sarver, City Hall, Canton, engr.

O., Chardon—Geauga Co. plans improving 2 mi. Painesville-Ravenna Rd., 20 ft. $82,251.

O., Columbus—Having plans prepared grading and paving with brick or asphalt and laying water services and sewer connections in 3,065 ft. Burgess Ave., brick $64,708, asphalt $42,883, 2,900 ft. Kent St. 26 ft., brick $48,134, asphalt $40,896, 940 ft. Jefferson Ave., 32 ft., brick, $9,267, asphalt $7,192, 1,863 Brinler Ave. 24 ft., brick, $48,455, asphalt $41,010, 1,900 ft. Westgate Ave., 24 ft., brick $42,024, asphalt, $35,026. R. H. Simpson, city engr.

O., Dennison—Rejected bids paving 1st and 3rd Sts. G. E. Arnold, Dennison, engr.

O., Medina—Medina Co. Plans improving 4.1 mi. Barberton-Greenwich Rd., 20 ft., $110,000., also about 3 mi. Ashland-Medina Rd., 20 ft., $87,000-$90,000.

Ind., Wabash—Wabash Co. plans grading and graveling 13,200 ft. Waggoner Rd., 24 ft. $26,732. H. Hartmen, Wabash, engr.

Ind., Williamsport—Warren Co. plans grading and graveling 14,000 ft. Frank V. Hall Rd., 24 ft. $26,778. J. R. Gregory, Williamsport, engr.

Mich., Detroit—Made plans paving with 3½ in. sheet asphalt 31,700 sq.yd. Van Dyke Ave. Sect. 3, $158,970, 33,300 sq.yd. Van Dyke Ave. Sect. 4, $166,800, 11,400 sq. yd. Dequindre St. $57,350, 14,700 sq.yd. Houston Ave. $73,700, 7,000 sq.yd. Edward Ave. $5,100, 5,800 sq.yd. Petoskey Ave. $29,150. G. Jerome, city engr.

Ill., East St. Louis — Soon takes bids grading, rein.-con. surfacing and integral curbing 3,200 ft. Exchange Ave., 32 ft. $42,500. W. M. Brown, City Hall, engr.

Ill., Edwardsville—Madison Co. making preliminary plans grading, hard-surfacing, etc., Sects. 11, 12 and 14 in Helvetia Twp. $30,000. County Superintendent, Edwardsville, engr.

Ia., Rockwell City—Plans paving about 10 blocks Smith and Pleasant Sts. $35,000. D. E. Leonard, city clk.

Kan., Anthony—Harper Co. plans grading and sand clay surfacing 5.524 mi. Federal Aid Project 209-A, 18 ft. A. E. Askins, co. engr.

Kan., Anthony—Harper Co. plans grading and sand clay surfacing 12.847 mi. Federal Aid Project 206-A, 18 ft. Eidmann & Marshall, Smith Bldg. No. 6, Topeka, engrs.

Kan., Scott City—Scott Co. plans grading and sand clay surfacing 6 mi. Federal Aid Project 248-A, 26 ft. F. R. Robb, co. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids grading, paving with granite, asphalt, Warrenite, brick, all on concrete, asphaltic concrete, Kentucky Rock or concrete, granite curbing, etc., Arsenal St. $23,000, Brannon Ave. $8,900, Davison St. $27,800, Delmar Blvd. $48,000, Emerson St. $29,400, Eitman St. $11,000, Goethe St. $16,400, Labadie St. $27,200, Macklind Ave. $38,300, Louisville Ave. $33,300, Hoffman St. $15,500, Theodora St. $53,800, Grace Ave. $5,400, Tennessee St. $15,700, Rey Ave. $32,000, Plover Ave. $6,100, Odell St. $19,200, and 9 alleys, $36,170. W. W. Horner, city engr.

Mo., St. Louis—Soon takes bids grading and temporarily macadamizing 900 ft. strip Kingshighway-Northwest and West Florissant St., north, $25,600; removing and replacing defective existing curbing removing existing roadway, asphalt on concrete paving and concrete gutters, etc., 5 blocks 18 ft. from Lafayette to Chouteau Ave., $32,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis — Making preliminary plans constructing 2 blocks Miami St. across Grand Blvd. into Gravois Ave., and paving same with asphalt or brick on concrete, $25,000; widening Cherokee St. from Bway. to 18th St., Gravois and Grand Aves., cut-off into McDonald Ave. and another into Utah St., also connecting Utah St. with Fyler Ave. and widening Utah St. to 80 ft., $125,000. H. Barholomew, Municipal Courts Bldg., engr.

Arkansas—State Hy. Comn., Little Rock, making preliminary plans grading and concrete surfacing 8 mi. Foran Gap Rd., 18 ft. W. T. Tucker, c/o State Hy. Dept., engr.

Tex., Bellville—Austin Co. preparing plans concrete paving 17.4 mi. State Highway 36, 18 ft. Election for $625,000 bonds soon. H. Schroeder, Wallis, engr.

Tex., Ft. Worth—Making plans paving Madeline St. $25,000; East Magnolia, Arlington and Vickery Sts., (sections in parks by city Park Bd.) standard alternates on miscellaneous types paving. D. L. Lewis, city engr.

Tex., Greenville—Wesley College plans concrete paving campus. $25,000. Engineer not announced.

Tex., Henrietta—Clay Co. voted $60,000 bonds hard surfacing roads in Dist. 7. J. F. Vaden, co. judge.

Tex., Houston—San Jacinto Trust Co., 1216 Main St., plans paving 15,000 sq.yd Richmond Pl. $38,000. J. S. Boyles, Court House, engr.

Tex., Linden—Cass Co. voted $250,000 bonds, permanent paving highway in Rd. Dist. 1. S. E. Hess, co. engr.

Tex., Tyler—Election Aug. 16, $150,000 bonds 8 mi. permanent paving. L. Powell, city engr.

Tex., University Park (Dallas P. O.)—Election Aug. 16, $50,000 bonds paving various streets.

Tex., Victoria—Victoria Co. election in October $750,000 bonds hard surfacing, grading and bridging roads radiating from here. Total $1,250,000. State and Federal Aid appropriates $500,000 toward cost. Address Co. Commissioners.

Okla., Durant—Making preliminary plans grading, curbing, guttering and concrete surfacing, 10 blocks Evergreen St., 20 ft.

Calif., Alameda—Made plans improving portions of Fillmore St., 17,700 sq.ft. grading, 550 lin.ft. concrete curbing, 10,225 sq. ft. oil macadam paving, 1,375 sq.ft. concrete guttering, etc.; Washington St. 64,-200 sq.ft. grading, (fill and light cut), 1,020 sq.ft. oil macadam paving, 2,350 sq.ft. guttering, etc. B. Hamilton, city engr.

Calif., Arcadia — Plans to vote on approximately $230,000 bonds paving various streets.

Oklahoma — State Hy. Dept., Oklahoma City, soon takes bids grading and hard surfacing 5.5 mi. Henryetta Rd. west to county line, 8.5 mi. Beggs Rd. north to county line, and 8.5 mi. Morris Rd. east to county line, all in Henry Co. J. M. Page, highway engr.

Okla., Norman—Plans grading and paving 7 blocks 14th, 6th and Hale Sts., 6,800 sq.yd. concrete, 2,100 cu.yd. excav. $28,000. F. Cobb, Norman, engr.

Calif., Chico—Soon takes bids improving Normal Ave. and Chestnut St., 581,040 sq. ft. grading, 575,200 sq.ft. 5 in. asphaltic concrete paving, curbs, gutters, walks, etc. To exceed $75,000. C. M. Ennis, city engr. Noted July 3. Former contract rescinded.

Calif., Fresno—City Comns. taking bids improving Harrison, Safford Sts., etc., 112,-694 sq.ft. grading, 14,765 sq.ft. cement walks, 3,609 lin.ft. curb. W. Stranahan, city engr. Noted July 3.

Calif., Hollister—San Benito Co. appropriated $25,000 to finance improvement on various roads.

Calif., Los Angeles—Los Angeles Co. made plans improving New Ave., etc., 1,207 cu.yd. excav., 2,164 lin. ft. concrete curbing, and 9,525 sq.ft. sidewalks

Calif., Los Angeles — Los Angeles Co. made plans improving portions of Santa Fe Ave. and Gould Lane, 1,915 cu.yd. excav., 1,264 cu.yd. remove old macadam, 3,757 lin.ft. shape shoulders, 11,381 sq.yd. each reshape old macadam, shape roadway and asphaltic concrete pavement; Center St. and Sommerset Ave., 9,229 cu.yd. earth excav., 7,281 sq.yd. remove old macadam, 48,179 sq.yd. place old macadam and disintegrated granite sub-base, 41,445 lin.ft. shape shoulders, 48,179 sq.yd. concrete pavement, etc.; Arizona Ave. between 3rd St. and Anaheim-Telegraph Rd., 9,622 cu. yd. excav., 202,195 sq.ft. concrete walks and curbs, 115,388 sq.ft. gutters, etc., to exceed $100,000.

Calif., Mayfield—Made plans improving various streets 400,000 sq.ft. 5 in. concrete pavement, curbs, water and sewer services. $90,000-$100,000. C. Moser, 651 Homer Ave., Palo Alto, engr. Noted Apr. 3.

Calif., Oakland—Made plans improving portions of 69th Ave. 58,368 sq.ft. grading, 2,823 lin.ft. concrete curb, 5,264 sq.ft. gutters, 28,007 sq.ft. oil macadam pavement, 13,005 sq.ft. cement sidewalks, etc.; 2nd St. between Alice and Oak Sts., 40,050 sq. ft. grading, 1,720 lin.ft. concrete curbs, 1,800 sq.ft. gutter, 38,250 sq.ft. 6 in. concrete base with 2 in. Warrenite bituminous surface Fresno St. 2,460 cu.yd. excav., 2,053 lin.ft. concrete curb, 4,105 sq.ft. concrete gutter, 28,567 sq.ft. oil macadam pavement, 12,316 sq.ft. cement sidewalks, Baxter St. 961 cu.yd. excav., 507 lin.ft. concrete curb, 1,014 sq.ft. concrete gutter, 6,556 sq.ft. oil macadam pavement, 2,534 sq.ft. cement sidewalks; East 19th St. 284 lin.ft. 8 and 10 in. pipe sewer, etc. W. W. Harmon, city engr.

Calif., Oakland—Made plans improving portions of High St. between Tompkins and Hopkins Sts., etc. 114,454 sq.ft. grading 50,322 sq.ft. oil macadam paving, 14,182 sq.ft. concrete sidewalks, concrete curbs, gutters, box culvert, etc. W. W. Harmon, city engr.

Calif., Placerville—Making plans from 90,000, 100,000 sq.ft. 5 in. concrete paving on portions of Coloma St. $25,000. C. H. Wildman, city engr.

Calif., San Diego — Common Council plans improving Juniper and 31 Sts., etc., 125,498 sq.ft. 1½ in. asphaltic concrete paving on 4 in. concrete, 10,728 sq.ft. 4 in concrete paving, 5,531 sq.ft. concrete sidewalks, 1,180 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr.

Calif., Santa Cruz — Santa Cruz Co., making plans improving 5 mi. Bod Fish Mill Rd., approximately 40,000 cu.yd. side hill excav. to mile. L. Bowman, co. engr.

Calif., Ventura — Supervs. Ventura Co. received no bids improving Foothill Rd. from city limits of Santa Paula to west end Rd. Dist. 4, 6,000 cu.yd. excav., 13,400 lin.ft. shape and roll, 214,500 sq.ft. asphalt macadam pavement, culverts, concrete pipe, etc. C. W. Petit, co. surveyor. Noted July 17.

Ontario — Dept. Pub. Wks., Provincial Highways, Ottawa, soon takes bids asphalt paving roads at Connaught Pl., West Block and Printing Bureau. $44,000. R. C. Wright, c/o Dept. Pub. Wks., engr.

Ont., Birchcliffe—Scarboro Twp., making plans 15,000 ft. concrete sidewalks in various streets. $25,000. C. E. Fraser, 1361 Kingston Rd., engr.

Streets and Roads (Continued)

Ont., Fergus—Plans concrete paving St. Andrew St. $40,000.

Ont., North Bay—Soon takes bids asphalt paving sewers and water mains in 1st Ave., Fisher, Casella and Klock Sts., $115,000. W. Mackie, town engr.

Ont., Oshawa — Plans improving Burk St. $29,865, Alma St. $3,446, Bloor St. $7,232, Olive Ave. $9,870, Verdun Rd. $17,-803, Center St. $17,232, Mary St. $25,487, Alice St. $11,034. Work involves 33,000 sq.yd. asphalt on concrete paving with concrete curbs and gutters or concrete paving. W. C. Smith, city engr.

Ont., Ottawa — Bd. Control soon takes bids asphalt paving Elgin St. $25,000 . A. F. Macallum, city engr.

Ont., St. Catharines — Suburban Rd. Comn,. making plans 22,000 sq.yd. paving various streets, asphalt on macadam $80,000. F. N. Rutherford, St. Catharines, engr.

Ont., Toronto — Plans asphalt paving Harriett St. $4,676, brick block and asphaltic concrete paving 7th St. $14,767; concrete paving lane first west of Yonge St. $9,763; concrete sidewalks on Iona Ave. $1,122, Oak Crest Ave. $5,461, Woodbine Ave. $103, Keystone Ave. $2,985; concrete curbing 7th St. $727; grading lane between Sparkhill and Bain Aves. $9,500. R. C. Harris, city engr.

BIDS DESIRED

Massachusetts—July 29, by Dept. Pub. Wks., Div. Highways, State House, Boston, bituminous macadam paving, 4,600 ft. highway 18 ft. in Canton, $35,000, 3,000 ft. highway 20 ft. in Danvers, $25,000; bituminous concrete, 7,924 ft. highway 18 ft. in Plymouth, $45,000, 9,700 ft. highway 18 ft., in Mashpee and Sandwich, $50,000; 387 ft. bridge and approaches in West Stockbridge. W. F. Williams, comr.

Massachusetts—See "Streets and Roads."

Mass., Boston—July 28, by Dept. Pub. Wks., City Hall, sheet asphalt on bitulithic pavement in Holton St. from Franklin to Everett Sts., Brighton (Boston P. O.), and from Centre St. to Jamaicaway, West Roxbury (Boston P. O.), $25,000. J. A. Rourke, comr.

Mass., Boston—July 30 by Pub. Wks., Dept., City Hall, recut granite block pavement in Congress and other streets, $25.000. J. A. Rourke, comr. Noted July 17.

New York—Aug. 4, at office F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, White Plans, improving 2.49 mi. Old Mamaroneck Rd., rein.-con., in White Plains and Scarsdale; adv. E. N.-R. July 24.

N. Y., Brooklyn—July 30, by E. Riegelmann, pres. Brooklyn Boro., Boro Hall, grading and curbing East 8th St.; curbing, where necessary and paving with permanent asphalt on 6 in. concrete Ave. K, East 26th St., paving with permanent asphalt on 6 in. concrete Ovington Ave.; repaving with permanent asphalt on 6 in. concrete, Prospect Pl., 10th Ave. and 73rd St.

N. Y., Buffalo—July 29, by J. H. Meahl, comr. Parks and Public Buildings, City Hall, paving 2,500 ft. McKinley Parkway, to exceed $35,000.

N. Y., Collins—July 30, by Town Bd., highways B-49, B-50, B-51, Erie Co., to exceed $25,000. T. J. Soule, town clk.

N. Y., Holland—July 28, by Town Bd., improving Vermont Hill Rd. part 2, Erie Co., to exceed $25,000. W. C. Bucknam, clk.

N. Y., Pelham—July 29, about 3,300 sq.yd. concrete paving J. F. Fairchild, 4 North 3rd Ave., Mt. Vernon, civil engr.; adv. E. N.-R. July 24.

New Jersey — Aug. 11, by State Hy. Comn., Trenton, widening Route 3, Sect. 12, 83,533 sq.yd. gravel, Atlantic Co. L. E. Grover, secy.; adv. E. N.-R. July 24.

N. J., Belvidere—Aug. 6, by Bd. Chosen Freeholders of Warren Co., rein.-con. paving Riegelsville-Warren Glen Rd., Pohatcong Twp. M. S. Faust, clk.; adv. E. N.-R. July 24.

N. J., East Orange — July 28, by City Council, curbing and paving, North Brighton Ave., $20,000, Fair St. $16,000, North Clinton St., $40,000, also furnishing 70,000 gal. non-asphaltic road oil, $6,000. W. D. Willigerod, city engr.

N. J., Plainfield—Aug. 11, by Common Council at City Hall, sheet asphalt paving East and West 4th Sts. A. W. Vars, city engr.; adv. E. N.-R. July 24.

N. J., Trenton—Aug. 5, by Bd. Freeholders Mercer Co., asphalt paving Whitehead Rd. $60,000. H. F. Harris, Court House, engr.

N. J., Trenton—Aug. 5, by Freeholders Mercer Co., reconstructing 13,700 sq.yd. Sullivan Way, portland cement. $80,000. H. F. Harris, Court House, engr.

Pennsylvania—Aug. 5, by State Dept. Hys., Harrisburg, rein.-con. surfacing 21 mi. 6 projects in 5 counties. P. D. Wright, secy. highways; adv. E. N.-R. July 24.

Pa., Lewistown—Aug. 4, by Boro Council, grading, etc. West Hale St., 383.2 cu.yd. excav., 1,908.5 sq.yd. double seal tarvia, etc. $25,000. C. C. Brown, Yeagertown, engr.

Pa., Meyersdale—Aug. 4, by Boro Council, concrete and Carolite paving and concrete curbing 2.500 ft. Large St., 26 ft. $30,000. L. H. Rowe, boro engr.

Pennsylvania—Aug. 5, by Dept. Hys., Harrisburg, **(R. means Route and A. means Application)**, one course rein.-con. paving 12,751 ft. R. 221, Blair Co., 3,940 ft. R. 52 and 53, Cambria Co., 2,249 ft. R. 222, Cambria Co., 22,000 ft. R. 360, Chester Co., 2,249 ft. R. 222 and A. 1762, Cambria Co., 18,997 ft. R. 5, Lackawanna Co., 40,242 ft. R. 333, York Co. P. D. Wright, secy. highways.

Pa., Altoona—July 31, by City Council, B. Keatley, comr. concrete paving 1 mi. 15 streets. $60,000. H. J. Baum, City Hall, engr.

Pa., Cresson—Aug. 1, by Boro Council, T. M. Walker, secy., 523 Ashcroft Ave., improving Front St., 1,150 cu.yd. excav., 3,000 lin.ft. resetting stone curb, 9,050 sq. yd. resurfacing and 2,300 sq.yd. rein.-con. base, paving with sheet asphalt or Warrenite-bitulithic surface. $25,000. W. D. Dillman, 85 Altoona Trust Bldg., Altoona, boro. engr.

Pa., Phila.—July 24, by Bureau Hys., Dept. Pub. Wks., grading (Schedule A), 2,347 cu.yd. Fairhill, Wingohocking and Wyoming Sts., 12,362 cu.yd. Park. 12th and 13th Sts., 3,391 cu.yd. Sheldon St.; asphalt paving (Schedule B) 1,633 sq.yd. Bass and Crowson Sts., 850 sq.yd. Broad St. intersection of Roosevelt Blvd. and Cayuga St., 3,749 sq.yd. Collins St., 2,442 sq.yd. Glenwood St., 4,301 sq.yd. Hunting Park and Worrell Sts., 1,707 sq.yd. Ritner St., 1,491 sq.yd. Rorer St.; vitr, block paving (Schedule C), 1,104 sq.yd. Zeralda St.; (Schedule D) improving Spring Garden St. from Delaware Ave. to 6th St. G. H. Biles, dir. Pub. Wks.

Pa., Southmont—Aug. 7, by Boro Council, 3,000 ft. one course rein.-con. on State and Olive Sts., 30-36 ft. also sanitary sewers, $50,000. R. G. Wertz, secy.

Maryland — July 29, by State Roads Comm., 601 Garrett Bldg., Baltimore, concrete paving, 1 mi. Contr. CI 34, Carroll Co., 1.27 mi. Contr. Q-32, Queen Ann's Co., 0.5 mi. Contr. WO-38, Worcester Co., concrete shoulders 4 mi. Contr. M-25-B, Montgomery Co., gravel 6.23 mi. Contr. CH-29, Charles Co. J. N. Mackall, chn.; adv. E. N.-R. July 24.

Md., Easton — July 31, by Mayor and council, constructing about 6,000 lin.ft. concrete curb and gutters. E. G. Kastenhuber, Jr., city engr; adv. E. N.-R. July 24.

North Carolina—Aug. 5, by State Hy. Comn., Raleigh, hard surfacing 19.54 mi. roads in 2 counties; topsoiling 78.09 mi. roads in 8 counties.; adv. E. N.-R. July 24.

Alabama—Aug. 13, by State Hy. Dept., Montgomery, grading and graveling 8 mi. roads in Dallas Co., 20 ft., $30,000; 23 mi. Mobile-Salma Rd., 20 ft., Washington Co., $50,000. W. S. Keller, highway engr.

Miss., Corinth—Aug. 11, by Mayor and Bd. Alderman, at Mayor's office improving Jackson, Taylor and Webster Sts., R. T. Totten Inc., Birmingham, Ala., consult engrs; adv. E. N.-R. July 24.

Miss., Pontotoc—Aug. 6, at Court House, constructing 10.801 mi. Pontotoc-Calhoun Rd., Pontotoc Co., incl. 2 mi. concrete surfacing, 9 ft. 8 in. x 7 in. loose 3 ft. gravel shoulders. $91,996. H. C. Dietzer, Jackson, engr.

Tennessee—Aug. 8. by State Dept. Hys. & Pub. Wks., Nashville, grading and surfacing 116 mi. roads and constructing 41 rein.-con. bridges. J. G. Creveling, highway comr.; adv. E. N-R. July 24.

Ky., Paducah—July 31. at office E. R. Bradshaw, Jr., city engr.. City Hall, concrete sidewalks, driveways, etc.; adv. E. N.-R. July 24.

Ohio—Aug. 1, by Dept. Hys. & Pub. Wks., Columbus, grading, bridging and paving with rein.-con., brick, sheet asphalt, bituminous macadam, asphalt, tar or bituminous concrete 54.847 mi. roads in various counties. $1,618,304.

O., Dover—Aug. 1, by H. Keppler, serv. dir., paving 4th and East 6th Sts., brick. asphalt and concrete. $60,000. Noted Mar. 27.

Michigan—July 28, by State Hy. Dept. at office Comrs. Ionia Co., Ionia, grading and surfacing 0.952 mi. State Trunk Line Rd. 21-20, 11,179 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—July 28, by State Hy. Dept. at office Comrs. Calhoun Co., Marshall, grading and surfacing 0.995 mi. State Trunk Line Rd. 60-6, 11,633 sq.yd. concrete. G. C. Dillman, Lansing, ch. engr.

Michigan—July 29, by State Hy. Dept. at office Comrs. Osceola Co., Hersey, grading and surfacing 2.008 mi. State Trunk Line Rd. 66-13 and 66-20, 18,827 sq.yd. gravel. G. C. Dillman, Lansing, ch. engr.

Illinois — July 30, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, improving roads, 6.5 mi. Route 1, Sect. 32-A, Salina Co., 49,750 cu.yd. excav, 0.35 mi. Route 2, Sect. 63-A, Woodford and McLean Counties, 20,193 cu.yd. excav., 0.43 mi. Route 10, Sect. 19-S, Sangamon Co., 24,530 cu.yd. excav., 3,468 ft. Title Line, Route 10, Sect. 19-T, Sangamon Co.; 1 rein.-con. slab bridge, three 26 ft. spans and one rein.-con. girder bridge, three 24 ft. spans, Route 9, Sect. 39-B, Fulton Co. F. T. Sheets, ch. engr.

Ill., Aurora—See "Bridges."

Wisconsin—July 29, at office State Highway Comn., Division 3, Nicolet Bldg., Green Bay, grading 9.57 mi. Mountain-Lakewood Rd., Federal Aid Project 338, Oconto Co., 100,803 cu.yd. earth excav., 1,815 cu.yd. loose and 595 cu.yd. solid rock excav., etc., J. T. Donaghey, acting state hwy. engr.

Wis., La Crosse—July 31, by Bd. Pub. Wks., improving various streets, 26,047 cu.yd. excav. in St. Andrews and Harvey Sts., 17,761 cu.yd. fill in George St. south of St. Andrews St., 8,132 cu.yd. fill in Kane St. from St. Andrews to St. James Sts. To exceed $25,000. C. C. Congdon, City Hall, engr.

Ia., Primghar—July 25, by Clerk O'Brien Co., grading 13.8 mi. road north and south of here, 136,370 cu.yd. excav., 19,760 ft. tile drain, 12 intakes. Iowa Hy. Comn., engrs.

Wyo., Casper—August 5, by City Council, improving Paving Dist. 46, 40,000 sq.yd. concrete, rein.-con., asphaltic or bitulithic concrete, 14,500 lin.ft. combination curb and gutter, 17,500 cu.yd. excav. $163,000; Dist. 35, 16,000 cu.yd. excav., 23,000 sq.yd. pavement, 8,500 lin.ft. curb, and 10,200 lin. ft. combination curb and gutter, storm sewers in each district $135,000.

Arkansas—July 25, by State Hy. Comn., Little Rock, improving 4.148 mi. Marianna-Wheatley Rd., Federal Aid Project 190-A, Lee Co., 22 acres clearing and grubbing, 31,744 cu.yd. excav., 11,577 lb. reinforcing, 19,414 lb. structural steel, 8,643 cu.yd. gravel, etc. W. T. Tucker, state highway engr.

Tex., Carrizo Springs—Aug. 12, by J. G. Lott, engr. Dimitt Co., grading, gravel surfacing and bridging 12.78 mi. State Highway 85, 18 ft., State Aid Project 483-B. $260,000.

Tex., Crockett—July 28, by Houston Co., grading and gravel surfacing 3.5 mi. road in Dist. 10. $26,000. Baker & Von Zuben, Ellison Bldg., Ft. Worth, engrs.

Tex., Houston—Taking bids paving Bayland St., from Houston to Michaux Sts., asphalt or brick on concrete. $25,000. J. C. McVea, city engr.

Tex., McKinney—July 31, by T. O. Murray, judge Collin Co. resurfacing 12.15 mi. State Highway 6, State Aid Project 172, with bituminous topping. involving 104,460 gal. asphaltic oil, (alternate on mechanically prepared bituminous top) 1,392 cu.yd. chatts, 2,904 cu.yd. 1 in. rock. $40,000. F. W. Cawthon, co. engr.

Tex., Webb—See "Bridges."

Colorado—July 29, by State Hy. Dept., Denver, gravel surfacing 7.507 mi. Federal Aid 210-B, Garfield and Mesa Counties, $164,165, 2.172 mi. Federal Aid Project 269-A, Montezuma Co., $25,752; grading 1.814 mi. Federal Aid 886, Clear Creek Co., $30,000. L. D. Blauvelt, State Office Bldg., Denver, engr.

Calif., Glendale — City Council taking bids improving Tyler, Palmer, Green Sts., etc., 55,000 sq.ft. grading, 42,200 sq.ft. 5 in. oil macadam pavement, 6,300 sq.ft. sidewalks, 1,919 lin.ft. curb, 1,155 lin.ft. 4 and 6 in. water pipe; Sierra Ave., Glenoake Blvd., etc., 237,000 sq.ft. grading, 132,300 sq.ft. 5 in. oil macadm pavement, 31,500 sq.ft. sidewalks, 28,360 sq.ft. gutters, 1,710 lin.ft. "A" curb, 3,745 ft. "B" curb, 176 lin.ft. 6 in. "B" water pipe. B. F Dupuy, city engr.

Calif., Redwood City — Supervs. San Mateo Co. taking bids grading, etc., 9,000 lin.ft. streets between Black Mountain and Skyline Blvd. G. A. Kneese, co. engr.

Calif., San Diego—August 4, by A. H. Wright, city clk., improving El Cajon Ave., 245,828 sq.ft. 2 in. asphaltic concrete pavement on 3 in. bituminous base, 285,085 sq.ft. 1½ asphaltic concrete pavement on 4 in. concrete base, 33,243 sq.ft. concrete sidewalks, 137 lin. ft. concrete curb, etc., F. A. Rhodes, city engr.

Calif., Southgate—City Trustees taking bids improving Santa Ana St. from Elizabeth to San Gabriel Sts., 100 sq.ft. sidewalks, 168,455 sq.ft. grading, 12,591 sq.ft. 5 in. and 1,312 sq.ft. 8 in. concrete gutter, 116,615 sq.ft. 1½ in Willite surface on 3½ bituminous base and 51,840 sq.ft. 1½ in.

Streets and Roads (Continued)

Willite surface on 2½ in. bituminous base, etc.; Portion of Santa Ana St. 100 sq.yd. sidewalks, 166,965 sq.ft. grading, 110 lin. ft. curb, 10,757 sq.ft. 5 in. and 1,965 sq.ft. 8 in. concrete gutter, 166,965 sq.ft. 1½ in Willite surface on 3½ in. bituminous base. E. M. Lynch, Central Bldg., Los Angeles, engr.

B. C., Vancouver—July 24, by City Clerk, paving various streets, 60,000 sq.yd. asphaltic concrete on asp[illegible] macadam. $103,000. C. Brackenridge, city engr.

BIDS RECEIVED

N. Y., New York—J. Miller, pres. Manhattan Boro., Municipal Bldg., July 16, repaving with sheet asphalt 42nd St., from Cleveland Trinidad Paving Co., Flushing, $15,980, West 73rd St., from Asphalt Constr. Co., 208 Bway., $50,666, 82nd St., from Interboro Asphalt Paving Co., 2306 Creston Ave., $58,953, 85th St., from Brewstar Constr. Co., Harlem River and 150th St., $33,402, 90th St., from J. E. Gaffney, 438 East 91st St., $37,986, repaving with granite block East Houston and Bleecker Sts., from Colgan & Colgan, 324 Jay St., Brooklyn, $27,034 and $16,898 respectively. Noted July 10.

N. J., Mt. Holly—Bd. Freeholders Burlington Co., paving Moorestown-Riverton Rd. and resurfacing road in Beverly Twp., from Union Paving Co., 30th and Locust Sts., Phila., Pa., $149,092 and $20,424 respectively. Noted June 26.

N. J., New Brunswick—Bd. Freeholders Middlesex Co., concrete paving 56,712 sq.yd. Old Bridge-Matawan Rd., Madison Twp., from Liddle & Pfeiffer, 147 New Brunswick Ave., Perth Amboy, $228,975. Noted June 26.

Pennsylvania—Dept. Hys., Harrisburg, July 15, **(A means application and R. Route)** surfacing, etc., A. 2839-2861, Somerset Co., from Corrado & Galiardi Constr. Co., Colonial Natl. Bank Bldg., Connellsville, $244,732; R. 31, Perry Co., from Union Paving Co., 30th and Locust Sts., Phila., $339,936; R. 55, Blair Co., from Davis & Young, Hollidaysburg, $22,146; A. 1468, Fayette Co., from F. S. Wilson, Kittanning, $94,212; A 2735, Jefferson Co., from Milliron Constr. Co., Inc., 224 Deposit Natl. Bank Bldg., Du Bois, $102,906; R. 108, Sect. 2, Washington Co., from P. Derienzo, Fayette City, $89 011; R. 242, Washington Co., from S. Gamble Co., Glass St., Carnegie, $59,011; A. 2577, Sect. 2, Clarion Co., to Standard Paving & Contg. Co., 210 East Ohio St., Chicago, $96,354; R. 247, Allegheny Co., from Johnson, Drake & Piper, Inc., Erie, $333,219; R. 50, A. 3136, Somerset Co., from W. H. Wilkey, 375 Fayette Title & Trust Bldg., Uniontown, $145,472; A. 2753 Beaver Co., from Burns Bros., 343 East Washington St., New Castle, $132,943; R 181, Allegheny Co., from Mosteller & Virgin, 1226 Franklin Ave., Wilkensburg, $178,794; A. 1430, Chester Co., from Dalton Bros., Paoli, $102,341; A. 1788, Warren Co. and A. 985, Indiana Co., from Du Bois Constr. Co., Du Bois, $46,426 and $72,361 respectively. Noted June 26.

Pa., Phila.—Bd. Pub. Wks., improving from Stiles to Clearfield Sts., Contr. 105, from P. McGovern, Inc., 50 East 42nd St., New York City, $14,800,015; from Stiles to Dauphin Sts., Contr. 105-A, and from Dauphin to Clearfield Sts., Contr. 105-B, from Keystone State Constr. Co., 210 South 13th St., $7,660,649 and $6,554,452 respectively.

W. Va., Williamson—Widening and improving 12 mi. Projects 23 and 29, 26 ft., rein.-con., from S. T. Waller & Co., Williamson, $112,978; grading 7 mi. Project 30, 18 ft., rein.-con., from I. Webb, Williamson, $58,666. Noted June 19 and 26.

O., Canton—Stark Co., improving 3.8 mi. Alliance-Maximo Rd., 20 ft., from Urban Bros., Canton, concrete, $136,374; C. Biery, Alliance, waterbound macadam, $117,750; G. Hadley Goldburg Bldg., gravel, $88,191. Noted July 17.

Wis., Milwaukee—Bd. Pub. Wks., July 9, paving 6,363 sq.yd. Clybourn St., vibrolithic concrete, from Czerwinski Constr. Co., 378 16th Ave., $1,834, 7,251 sq.yd. National Ave., sheet asphalt, from Badger Constr. Co., 97 Wisconsin St., $38,696; concrete paving 2 alleys, from J. Bluhm & Son, 1298 Achilles Pl., $2,991, 2 alleys, from Schwerm Bros., 50 Lee St., $6,981, 4 alleys, from W. T. Vanderboom, 97 32nd St., $17,717, 1 alley, from Ryback & Sadowski, 1092 2nd Ave., $5,743, 1 alley, from F. Blodgett, 521 Newton Ave., $1,695; concrete sidewalks on 3,794 sq.ft. Holten St., from A. Retzlaff, 868 Island Ave., $939. Noted July 3.

Tex., Houston—Paving **(a)** bitulithic **(b)** rock asphalt **(c)** 3 in. brick **(d)** 2 in. brick **(1)** Blodgett Ave. from Main to Almeda Sts. **(2)** Lamar Ave. from Hutchins to Crawford Sts. **(3)** Lamar Ave. from Milam to Bagby Sts., from Gulf Bitulithic Co., Milwaukee Bldg., **(a1)** $46,607 **(a2)** $34,388 **(a3)** $28,065; from S. Shambaugh, West Bldg., **(b1)** $47,230 **(b2)** $34,545 **(b3)** $28,064; from Valiant & Toomey, F. & M. Bldg., Ft. Worth, **(c1)** $53,319 **(d1)** $51,740. Noted July 10.

Calif., Marysville—From Warren Constr. Co., Bacon Bldg., Oakland, improving various streets, 290,244 sq.yd. 1½ in. asphaltic concrete surface on 3½ in. asphaltic concrete base at $0.216 per sq.yd., 290,244 sq.ft. grading $0.013, 16 catch basins, $40 each, gutters, curbs, etc. Noted June 26.

CONTRACTS AWARDED

New Hampshire—State Highway Dept., State House, Concord, bituminous macadam paving in Ossipee, to Arboria Road Constr. Co., 408 Main St., Hartford, Conn., $32,463.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, to W. J. McHale Contg. Co., 1250 Jefferson St., grading, curbing and flagging East 36th Ave. $2,332, to F. Persicano, 350 Fulton St., Ave. S $1,924, 45th St. $3,043, to F. Mandatto, 87th St. $1,614; to Cleveland Trinidad Paving Co., Flushing, sheet asphalt paving, East 36th St. $5,486, Mansfield Pl. $11,493, to Uvalde Asphalt Paving Co., 1 Bway., New York, Union St. $7,345, to Cranford Co., 52 9th St., Ave. S, $3,985, to M. J. O'Hara, 1228 Park Ave., New York, West 12th St., $10,450, 45th St. $6,883, 60th St. $5,139, 61st St. $10,876; to C. Bennett Contg. Co., 414 Rutland Rd., grading strip 50 ft. wide on Utica Ave., $18,931. Noted July 17.

N. Y., Brooklyn—Park Bd. at office Dept. Parks, Municipal Bldg., New York, improving Fort Hamilton Parkway, here, to M. J. O'Hara, 1228 Park Ave., New York, $54,999. Noted July 17.

N. Y., New York—H. Bruckner, pres. Bronx Boro., 3rd and Tremont Aves., bituminous concrete paving Beach Ave., to J. E. Gaffney, 438 East 91st St., $42,509; bituminous concrete paving Teller Ave. and granite block repaving East 158th St., to Asphalt Constr. Co., 208 Bway., $37,206 and 12,872 respectively, bituminous concrete paving University Ave., to Interboro Asphalt Co., 2306 Creston Ave., $18,455; granite block repaving East 149th St., to St. George Granite Co., 90 West St., $14,788. Noted July 17.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro., repaving with bituminous concrete Richmond and Central Aves., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $40,159 and $16,860 respectively. Noted July 17.

New Jersey—Bd. Freeholders Atlantic Co. (Mays Landing), Guarantee Trust Bldg., Atlantic City, reconstructing Absecon Blvd. joining Absecon with Atlantic City, 104,800 sq.yd. sheet asphalt, 109,000 sq.yd. concrete base, and additions to 9 bridges, to Union Paving Co., 30th and Locust Sts., Phila., $710,281. Noted June 26.

N. J., Flemington—Bd. Freeholders Hunterdon Co., paving 1 mi. Barbertown-Delaware Line Rd., to Sigafoos & Poore, Riegelsville, Pa., $48,000.

Pennsylvania—State Hy. Dept. Harrisburg, rein.-con. paving **(R. means Route and A. Application)** R. 380, Forest Co., to T. W. Munro & Co., 347 Cemetary Ave., Du Bois, $41,647; R. 185, Sect. 2, Schuylkill Co., to W. H. Murphy & Sons, Harrisburg, $305,904; R. 376, Lebanon Co., to Swanger & White, Lebanon, $155,753; R. 118, A. 2843, Washington Co., to Charleroi Constr. Co., Charleroi, $29,691; A. 31, Tioga Co., to R. D. Richardson Co., Connell Bldg., Scranton, $187,140; R. 150, Bucks Co., to Sutton & Corson Co., 9th and Simpson Sts., Ocean City, N. J., $331,103; R. 184, A. 1219, Luzerne Co., to Freeland Constr. Co., Hazelton, $64,913; R. 212, Sect. 6, Bradford Co., to Van Auken & Robbins, Thendara, N. Y., $244,088; R. 274, Chester Co., to R. L. Bonham Co., Bridgeton, N. J., $353,133. Noted July 10.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. Application)**, rein.-con. surfacing 65,774 sq.yd. R. 168, Monroe Co., to Juniata Co., Empire Bldg., Phila., $3.28 per sq.yd., etc., total $279,897; 83,062 sq.yd. R. 100 and 210, McKean Co., to D. L. Dennis, Bradford, $3.35, etc., total $455,461; 71,894 sq.yd. R. 59, Sect. 2, Jefferson and Clearfield Counties, to H. W. Horst Co., Rock Island, Ill., $3.62, etc., total $424,068; 46,214 sq. yd. R. 338, Jefferson Co., to Miller Constr. Co., Punxsutawney, $3.50, etc., total $232,834; 27,991 sq.yd. A. 2577, Sect. 1, Clarion Co., to Standard Paving & Constr. Co., Chicago, $3.40, etc., total $130,661. Noted June 26.

Pa., Connellsville—Brick paving Highland and West Murphy Aves., to M. Duggan, Connellsville, $32,618.

Pa., Greensburg—Westmoreland Co. reconstructing Harrison-Export Rd. in Penn Twp., rein.-con., to Cochran Constr. Co., Connellsville $60,071.

Pa., Olyphant—Paving [illegible] Court, Church and Cleveland Sts., to G. Mason, Olyphant, 3,800 sq.yd. Hammond 3 in. vitr. fibre brick $6, also 800 sq.yd. Hastings asphalt block $6.05, total [illegible].

Pa., Phila.—Bureau Hys., Dept. Pub. Wks., to R. B. Wenner, 3106 Midvale Ave., grading (Schedule A). Baldwin, Durham and Woolston Sts., $14,834, to T. L. Flanagan, 531 East Girard Ave., Collins St., $3,762, to Morrisey Bros., 4345 North 7th St., Erie, Torresdale and Luzerne Sts., $90,045, to F. Mark Constr. Co., 2820 North 21st St., Lambert, Nedro and Woodstock Sts., $7,434, to G. Knecht & Callison, Torresdale and Robbins Sts., Vista Whitaker and Pennway Sts., $7,489, to T. P. Lee, 5629 Cherry St., 60th and 62nd Sts., $4,063, to Union Paving Co., 30th and Locust Sts., asphalt paving (Schedule B) Atlantic St. $7,346. Atlantic and Palethorpe Sts. $4,611, Burton, Glenlock and Wakeling Sts. $10,121. Columbia St., $5,273, Crowson St. $7,939. Gratz, Woodstock and 21st Sts. $14,172, St. Bernard St. $5,042, 21st St. $7,214, 65th and 66th Sts. $18,896, to Eastern Paving Co., 401 Colonial Trust Bldg., Brill and Casimer Sts., $3,627, Edgemont St. $5,003. Granite St. $4,997, Malta St. $2,347, Wishart St. $2,803, Womrath St. $2,308, 2nd St. $3,173, 17th St. $4,111, to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., Louden and Mentor Sts., $7,187, 4th St. $5,955. Asphalt Co., 239 North 30th St., Ogontz St. $86,605.

Pa., Phila.—Bureau of Hys., Dept. Pub. Wks., to R. B. Wenner, 3106 Midvale Ave., grading (Schedule A), Bayard and Provident Sts. $8,157, Glenwood St. $1,206, Green Tree Rd. and Hampton St. $3,167, Knox St. $724; to S. C. Ratzell, Limekiln Pike and Haines St., Greenwood Tree Rd. and Hampton St. $2,167, to F. Mark Contg. Co., 2820 North 21st St., Boudinot and Clarkson Sts. $5,646; from Eastern Paving Co., 401 Colonial Trust Bldg., asphalt paving (Schedule B), Agate St. $2,599, Dyre St. $18,215, Heyward St. $4,160, Houghton St. $4,539, Lauriston St. $2,920, Mower St. $4,925, Pratt St. $12,936, Salmon St. $2,094, to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., Grande St. $8,666, 4th St. $12,192, 13th St. $7,807, to Barber Asphalt Co., 239 North 30th Ct., Ingersoll, Seybert, Stillman and Taney Sts., $12,514, grading and asphalt paving (Schedule D), Bigler, 15th, 16th and 17th St. $24,377; to J. H. Wells Co., 34 South 16th St. (Schedule E), reconstruction of Calumet St. Bridge over Norristown branch Philadelphia & Reading Ry. $19,000; to Chain Belt Co., 2009 Market St., (Schedule F) furnishing concrete mixer $4,834; to J. Brenton, 6428 Saybrooke Ave., (Schedule G), barring out and redressing granite blocks $3.075. Noted July 17.

Pa., Southmont—Constructing 2,600 ft. Marion and Palliser Sts., 24 ft. one course rein.-con., to C. H. Ressler, Johnstown, $57,980.

W. Va., Grantsville—Calhoun Co., grading 3 mi. Leaf Bank-Nicot Hill Rd., to Hardman & Harlow, Spencer, $53,627. Noted June 26.

W. Va., Moundsville—Marshall Co., concrete surfacing 1 mi. Webster Dist., to W. A. Wilson, St. Marys, $40,194; 3.8 mi. Waynesboro Hill Rd., to Keely Constr. Co., Fairmont, $129,918. Noted June 26.

W. Va., New Cumberland—Hancock Co., improving 1.5 mi. Smearinger Hill Rd., 20 ft., to Robinson Constr. Co., New Cumberland. Engrs. est. $40,000 to $50,000.

Miss., Sumner—To W. A. Morrison, Memphis, Tenn., grading and graveling Glendore Rd. westward 11 mi., $40,000, asphalt retreatment 11 mi. at $0.14 per sq. yd., repairs at $0.50 per sq.yd., earth shoulders at $0.35 per sq.yd.; Camden gravel for Glendore Rd., to Memphis Stone & Gravel Co., Exchange Bldg., Memphis Tenn.

Fla., Key West—Monroe Co., rock surfacing, bridging and oiling 4.5 mi. highway between Key Largo from Barnes Point to mainland, also highway from Stock Island to Saddle Bunches, to Tidewater Constr. Co., Ft. Lauderdale, $126,000 and $189,000 respectively; steel draw for Largo Bridge, to Champion Bridge Co., Wilmington, O., $23,659. Noted May 8.

Alabama—State Hy. Dept., Montgomery, grading and concrete surfacing 1½ road between Lanett and West Point, Ga., 30 ft. Chambers Co., to Mitchell Bros. Constr. Co., Amer. Trust Bldg., Birmingham, $55,230. Engrs. est. $60,000.

Ala., Tuscaloosa—Asphalt paving 5 blocks various streets, 30 ft., to Long & Hagerty, Bessemer, $25,000.

La., Bastrop—Police Jury Morehouse Parish, grading and graveling Road 17, to Kulze-Hampton Co., Fordyce, Ark., and Road 13, to Tansey-Cavett Constr. Co., Shreveport. Noted June 19.

Streets and Roads (Continued)

La., Homer—Rein.-con. paving 5,120 sq.yd. West Main St., to E. J. Deas Constr. Co., Shreveport, $22,539. Engrs. est. $25,000.

La., Winnsboro—Grading and graveling 5 mi. Baskin-Delhi Highway, to C. Lord, Winnsboro; Turkey Creek Brake Project, clear 4.59 acres and 24,000 cu.yd. earth fill, to W. C. Perry, Winnsboro.

Kentucky—State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project, S. P. means State Project)**, grading 10.115 mi. Scottsville-Glasgow Rd., 26 and 30 ft., F. A. P. 112, Allen Co., to Alexandria Bros., Cadiz, $125,399, 10.767 mi. Covington-Lexington Rd., 26 and 30 ft., F. A. P. 114, Grant Co., to Ellis & Smeathers, Owensboro, $227,088, 9.498 mi. Richmond-Mt. Vernon Rd., 26 and 30 ft., F. A. P. 88, Madison and Rockcastle Counties, to J. L. Lusk, Barboursville, $113,373; waterbound macadam surfacing 1.12 mi. Grayson-Ashland Rd., 18 ft., S. P. 47-R, Carter Co., and rein.-con. surfacing 10.206 mi. same road, Sect. C, 18 ft., to L. De Cognet, Lexington, $14,640 and $269,380 respectively; bank gravel surfacing 7.765 mi. Dixie Bee Line Rd., 18 ft., F. A. P. 111, Christian Co., to N. E. Stone & Co., Madisonville, $154,303, 9.27 mi. Louisville-Paducah Rd., 16 ft., S. P. 8-Q, Union Co., to Globe Constr. Co., Evansville, Ind., $96,468, 20.512 mi. Louisville-Paducah Rd., 16 ft., S. P. 8-D, Hancock Co., to T. Petry, Lewisport, $218,558; concrete surfacing 3.747 mi. Louisville-Bardstown Rd., 20 ft., F. A. P. 50-B, Jefferson Co., to G. M. Eady, Brook St., Louisville, $173,350, 17.035 mi. Barboursville-Corbin Rd., 18 ft., F. A. P. 61-C, Knox Co., to Eberback Constr. Co., Pomeroy, O., $555,407, 5.54 mi. London-Mt. Vernon Rd., 18 ft., F. A. P. 20-E, Laurel Co., to Lewis & Ingram, Danville, $203,030; creek gravel surfacing 10.582 mi. Hodgenville-Bardstown Rd., 18 ft., S. P. 3-B, Larue Co., to Mason Constr. Co., Elizabethtown, $221,780; waterbound macadam surfacing 17.082 mi. Owenstown-Georgetown Rd., 14 ft., S. P. 49-A, Owen Co., to S. M. Billiter, Covington, $381,372, 15.13 mi. Georgetown-Owenton Rd., 14 and 32 ft., S. P. 49-A, Scott Co., to Georgetown Constr. Co., Georgetown, $292,563. Noted June 26.

Ky., Louisville—Flexner & Morat, 419 West Market St., paving streets, sidewalks, etc., in Shawnee Terrace subdivision, to H. Bickel & Co., Garden St. Engrs. est. about $40,000. Noted July 17.

O., Alliance — Asphalt paving College, Rice and Morgan Aves., to C. S. Biery, Alliance. $31,372. Engrs. est. $35,000.

O., Alliance—Asphalt paving East Ely St., and 1 mi. South Linden Ave. from State to Milton Sts., to C. S. Biery, Alliance, $27,951 and $42,105 respectively. Engrs. ests. $30,000 and $50,000 respectively. Noted Mar. 20.

O., Canton—Stark Co., rein.-con. paving 4 mi Maximo-Alliance Rd., 20 ft., to Urban Bros. $136,373. Noted July 24.

O., Columbus—To D. C. Jones, Worthington, grading and paving 1.54 mi. Meek Rd. Sharon Twp., $33,999, 1.03 mi. Wilson Rd. Franklin Twp. $16,777. Noted July 3.

O., Orrville—City, **(e. e. means engrs. est.)** to McCourt Constr. Co., Akron, asphalt paving and stone curbing, Hagan Ave., $58,165, e. e. $65,000, North Vine St., $31,216 e. e. $30,000, West Chestnut St., $27,212 e. e. $29,500, asphalt paving and concrete curbing East Chestnut St., $26,242 e. e. $28,000, asphaltic concrete paving and stone curbing East Oak St., $26,721 e. e. $27,000.

O., Warren—Stone curbing and paving Kinsman St., brick on slag, to F. L. Geiger, Warren, $26,471, engrs. est. $28,000; resurfacing Washington, Scott, Harmon and Elm Sts., to Kelly-Meyer Co., Youngstown, $29,792, engrs. est. $34,831.

Michigan — State Hy. Dept. at office Comrs. Saginaw Co., grading and surfacing 5.995 mi. State Trunk Line Rd. 46-22, 30,839 cu.yd. excav., 66,258 sq.yd. concrete to McNally & McLean, Saginaw, $130,784. Noted July 3.

Michigan—State Hy. Dept. at office Comrs. Cass Co., Cassapolis, shaping and surfacing 2.89 mi. State Trunk Line Rd. 62-1, 30,513 sq.yd. concrete, to Kalamazoo Paving Co., Kalamazoo, $47,669.

Michigan—State Hy. Dept. at office Comrs. Alpena Co., Alpena, grading and surfacing 2.11 mi. State Trunk Line Rd. 10-18 B, 15,222 cu.yd. excav., 24,658 sq.yd. concrete, to J. A. Campbell, Bay City, $49,645; 1.235 mi. State Trunk Line Rd. 10-18 C, 19,714 sq.yd. concrete, to E. Cozens, Levering, $44,165. Noted July 3.

Michigan—State Hy. Dept. at office Comrs. Washtenaw Co., Ann Arbor, grading and surfacing 1.453 mi. Federal Aid Project 67 A3, 11,944 cu.yd. excav., 16,807 sq.yd. concrete, to J. H. Baker & Sons, Port Huron, $35,806.

Michigan — State Hy. Dept. at office Comrs. Lenawee Co., Adrian, grading and surfacing 0.802 mi. Federal Aid Project 95 A2, 6,612 sq.yd. concrete, 2,247 sq.yd. gravel, to J. H. Lowe, Kalamazoo, $19,008.

Michigan — State Hy. Dept. at office Comrs. Eaton Co., Charlotte, grading and surfacing 1.062 mi. State Trunk Line Rd. 29-2 A, 4,044 cu.yd. excav., 12,460 sq.yd. concrete, to Banhage Constr. Co., Ionia, $29,027.

Michigan — State Hy. Dept. at office Comrs. Dickinson Co., Iron Mountain, grading and surfacing 1.239 mi. State Trunk Line Rd. 75-2, and 75-3, 14,512 sq.yd. concrete, to J. McDonnel, 304 1st Natl. Bank Bldg., Duluth, Minn., $29,464. Noted July 10.

Ill., Highland — Madison Co., grading and surfacing 1 mi. Highland-Sebastapol Rd., 15 ft., 9 ft. strip with concrete and 3 ft. gravel shoulders on either side, to Stoecker Gravel & Constr. Co., Edwardsville. Engrs. est. $25,000.

Ill., Silvis—Grading and concrete surfacing 9th St., to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia. Engrs. est. $25,000.

Wisconsin — State Highway Comn., at office Division 8, First Natl. Bank Bldg., Superior, to Lawrence & McCann Co., Eleveth, Minn., improving 5.64 mi. Spooner-Minong Rd., Federal Aid Project 377 A, Washburn Co., clearing 14.81 acres at $40 per acre, 35,279 cu.yd. earth excav. $0.32, 700 cu.yd. loose rock excav. $0.50, 708 cu. yd. borrow $0.22, 12,233 cu.yd. gravel surfacing $19,170, total $36,618, also 2.71 mi. Canton-Brule Rd., Federal Aid Project 174 (previously reported as No. 177), Rusk Co., clearing 8.54 acres at $40 per acre, 17,002 cu.yd. earth excav. $0.35, 600 cu.yd. loose rock excav. $0.60, 811 cu.yd. borrow $0.35, 4,797 cu.yd. gravel surfacing $7,228, total $21,719. Noted June 19.

Wisconsin — State Highway Comn., at Division 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, to W. E. 'Ule Co., Stevens Point, concrete surfacing, etc., 3.82 mi. Stevens Point-Plainfield Rd., Federal Aid Project No. 350, Portage Co., 9,761 cu.yd. earth excav. at $0.65 per cu.yd., 40,597 sq.yd. concrete surfacing $1.36, etc., total $67,869 Noted June 19.

Ia., Allison—W. C. Shepard, city clk., vibrolithic paving about 10,000 sq.yd. Main St., to Moore-Young Constr. Co., Waterloo, at $2.64 sq.yd. Noted June 19.

Ia., Cedar Rapids—To P. P. Smith Co., Cedar Rapids, rein.-con. paving E and C Aves., 19th St., Longwood, Dunreath and Gwendolyn Drives, $23,362, 20th, 22nd, 23rd and 24th Sts., C, D, E and F Aves., $59,866. Work involves about 35,000 sq. yd. paving.

Ia., Clinton — Clinton Co., to Clinton Eng. Co., Clinton, improving various primary road extensions, 9,585 sq.yd. concrete paving at 2.65 per sq.yd., 110 ft. alley paving $2.58, 5,412 ft. straight curbing $0.48 per ft., etc. Noted Jan. 10.

Ia., Ft. Dodge—Vibrolithic concrete paving about 13,950 sq.yd. various streets, to M. L. Flinn Paving Co., Grain Exch. Bldg., Sioux City, at $2.27 per sq.yd.; 10,850 lin.ft. curb and gutter, to T. C. Powers, Ft. Dodge, 6 x 18 at $0.72 per lin.ft., 8 x 24 $0.76, 9 x 24 $0.87.

Ia., Marshalltown—Marshall Co., to Anderson & Empire Constr. Co., Marshalltown, paving, etc., 2 mi. portion primary road, 11,988 sq.yd. concrete paving at $2.73 per sq.yd., 6,769 cu.yd. excav. $0.78, 2 intakes $75.00 each, and 2 at $95.00 each. Noted July 3.

Ia., Shenandoah—To J. S. McLaughlin & Sons, Mankato, Minn., vibrolithic concrete paving 20,500 sq.yd. various streets at $2.47 per sq.yd., 8,300 lin.ft. combined curb and gutter, total $44,666.

Ia., West Union—Fayette Co. to A. R. Hewitt, Westgate, improving Federal Aid Project 59-D, 3,582 cu.yd. gravel, 1 mi. haul, at $0.33 per cu.yd., 28,800 units, ½ mi. haul at $0.08 per unit, 1,000 cu.yd. stripping at $0.21 per cu.yd.; to Johnson & Fleckstein, West Union, improving Road 383, 18,362 cu.yd. concrete, incl. crushing, at $0.70 per cu.yd., 58,740 units gravel ½ mi. haul at $0.09 per unit, and improving Road 143, 1,412 cu.yd. gravel, incl. crushing, 1 mi. haul at $0.70 per cu.yd., 23,069 units, gravel ½ mi. haul at $0.09 per unit.

Minnesota — State Hy. Dept., St. Paul, **(SP means State Project, FAP means Federal Aid Project, e. e. means engrs. est.)**, grading State Project 2-24, Div. C, FAP 129, between Hawley and Glyndon, 86,000 cu.yd. excav., to Stevens Bros., 612 Endicott Bldg., St. Paul, $26,093, e. e. $40,000, SP 2-32, Sect. 1, FAP 348, between Aldrich and Wadena, 181,000 cu.yd. excav., to W. H. Small & Son, Aitkin, $55,108, SP 4-29, Sect. 1, FAP 342, north and south of Wadena, 64,000 cu.yd. excav., to W. H. Small & Son, Aitkin, $19,729, Sect. 2 of same road, 171,000 cu.yd. excav., to Nelson, Fulton & Nelson, 355 Temple Court, Minneapolis, $79,638, Sect. 3 of same road, 193,000 cu.yd. excav., to M. J. Nolan Constr. Co., 260 Temple Court, Minneapolis, $60,381, SP 6-31, FAP 343, between Breckenridge and south Wilkin Co. line, 270,000 cu.yd. excav., to Weaver & Richardson, Anoka, $76,076, SP 6-42, FAP 343, between Moorhead and south Clay Co. line, 173,000 cu.yd. excav., to S. Eneback, Marshall, $42,543, SP 7-36, FAP 365, between Tracy and Garvin, 120,000 cu.yd. excav., to D. Ryan, Marshall, $29,370, e. e. $35,000, SP 10-51, FAP 361, between Herman and Wheaton, 150,000 cu. yd. excav., to Weaver & Richardson, Anoka, $25,798, SP 13-21, Sect. 1, FAP 346, between Waseca and Waterville, 101,000 cu.yd. excav., to Nolan Bros., 18 North 2nd St., Minneapolis, $27,837, e. e. $35,000, SP 37-21, FAP 334, between Little Falls and Randall, 197,000 cu.yd. excav., to S. J. Groves & Sons, 803 Globe Bldg., Minneapolis, $47,059; graveling SP 7-20, FAP 247, between Janesville and Madison Lake, 7,300 cu.yd. gravel, to Conolly Contg. Co., 427 Rice St., St. Paul, $23,726, SP 13-02, FAP 285, between Albert Lea and Hartland, 24,160 cu.yd. gravel, to Marshall Concrete Tile Co., Marshall, $21,976, e. e. $42,000, SP 13-01, FAP 294, between Waterville and Kilkenny, 20,160 cu.yd. gravel, to Marshall Concrete Tile Co., Marshall, $23,935, e. e. $30,000, SP 22-24, FAP 254, between Eden Valley and Greenleaf, 34,400 cu.yd. gravel, to Marshall Concrete Tile Co., Marshall, $27,140, e. e. $55,000, SP 20-24, FAP 253, and SP 20-25, FAP 250, between Preston and Chatfield, 24,160 cu.yd. gravel, also SP 30-01, FAP 271 and SP 30-27, between Erskine and South Polk Co. line, 18,240 cu.yd. gravel, to Super-Way Co., Fergus Falls, $31,917 and $22,675 respectively, e. e. $43,000 and $36,000 respectively; paving SP 3-31, FAP 283, 42,640 sq.yd. concrete in Lake City, to Aabey & Muturi, Hibbing, $81,299, 33,400 sq.yd. in Red Wing, to M. J. Nolan Constr. Co., 260 Temple Court, Minneapolis, $49,191. Noted June 12.

South Dakota—State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)**, to Jahnig & Davis, Britton, grading 17.97 mi. F. A. P. 172 B, Edmunds Co., $37,788, to Spearfish Transfer Co., Spearfish, 2.8 mi. F. A. P. 163 A, Butte and Lawrence Counties, $11,517, and 4.7 mi. F. A. P. 163 A, Lawrence Co., $2,563, to W. Geddes, Ellendale, N. D., 9.03 mi. F. A. P. 186 A, Davison Co., $21,560; to Tobin & Maloney, Madison, graveling 11.17 mi. F. A. P. 135 A, Minnehaha Co., $15,268, 7.86 mi. F. A. P. 111, Chas. Mix Co., $10,138, 7.68 mi. F. A. P. 114, $14,855, and 12.5 mi. F. A. P. 113, $24,001, both Bon Homme Co.; to Aberdeen Constr. Co., Aberdeen, one 24 ft. I-beam span bridge on F. A. P. 112, Brown Co., $4,326, to Larson Constr. Co., 519 Secy. Natl. Bank Bldg., Sioux Falls, two twin 10 x 10 ft., concrete culverts on F. A. P. 135 B, Minnehaha Co., $9,779.

Wyoming—State Highway Comn., Cheyenne, **(F. A. P. means Federal Aid Project)**, grading and surfacing 3.4 mi. Casper Shoshoni Rd., F. A. P. 168A, to R. C. Martin, Midwest, $23,307, 8.5 mi. mi. Casper Rawlins Rd., F. A. P. 164A, to Sprague & Niseley, P. O. Box 851, Casper, $85,410, both 24 ft. wide, in Natrona Co.; grading, curbing and placing 16,600 sq.yd. one course concrete pavement on 1.4 mi. Yellowstone Highway near Thermopolis, Hot Springs Co., F. A. P. 169, 32 ft., to R. Kimball Eng. Co., Casper, 61,064; grading 12.9 mi. Jackson-Moran Rd., Teton Co. F. A. P. 163A, 24 ft., to Hoth Bros. & Co. Rock Springs, $48,585. Noted June 19

Mo., St. Louis — Bd. Pub. Serv., 208 City Hall, to Granite Bituminous Paving Co., Railway Exch. Bldg., paving with Warrenite bitulithic on concrete, Indiana Ave. $7,820, Plateau Ave. $9,860, Blow St. $38,349, Enright Ave. $7,493, 25th St. $37,985, Ohio St. $10,701, Dewey Ave. $13,581. Noted July 10.

Mo., St. Louis—C. Crane Wilmore Organization, Boatmans Bank Bldg., 2,500 ft. asphalt penetration paving, concrete curbing and guttering and 60,000 cu.yd. grading Pershing Blvd., in University Hills Subdivision, to J. Fleshner, 7055 Winona Ave. Engrs. est. $50,000.

Mo., St. Louis—Davis Realty Co., Odd Fellows Bldg., grading, concrete surfacing, concrete curbing and sidewalks 1 mi. Alta Dena Subdivision in University City, 26 and 36 ft., to C. Isreal, c/o owner. Engrs. est. $42,500.

Mo., Springfield—Green Co. will resurface 2 mi. Natl. Blvd. from city limits to Natl. Cemetery, 24 ft. penetration macadam and bituminous binder on old cement, by day labor.

Ark., Pine Bluff—To J. P. McNulty, 2121 Cherry St., 29,000 sq.yd. 6 in. vibrolithic concrete paving at 2.18 per sq.yd., 13,000 cu.yd. excav. $0.44, 18,000 lin.ft. curb and gutter $0.64, total $80,460.

Streets and Roads (Continued)

Ark., Texarkana—Paving in Dist. 20, 71,507 sq.yd. grading, 64,348 sq.yd. sheet asphalt on concrete, 12,571 lin.ft. curb and gutter, 12,845 lin.ft. blue stone curb, 13,726 lin.ft. 24 in. concrete curb and gutter, 13,850 lin.ft. concrete headers, 62 catch basins, 200 ft. 15 in. vitr. pipe, etc., to Gregory & Wilson, Southern Trust Bldg., Little Rock, $233,856 (150 days). Noted Apr. 24.

Tex., Carthage—Panola Co., grading and bringing 9.68 mi. State Highway 43-A, Rd. Dist. 1, State Aid Project 502, 26 ft., to Brammer & Wilder, 308 Stewart Bldg., Houston, $55,420. Engrs. est. $62,254. Noted July 10.

Tex., Chillicothe—Paving various streets, Willite, to Plains Paving Co., Wichita Falls, $27,158. Noted June 12.

Tex., Marshall—Harrison Co., grading, etc., 13 mi. Ashland-Smyrna Rd., to Reynolds, Sutton & Woods, Marshall, $36,228.

Tex., Roscoe—Paving various streets, to Jordan Constr. Co., Plainview, $40,000. Noted June 26.

Oklahoma—State Hy. Dept., Oklahoma City, paving 6 mi. Madill-Johnson Co. line Rd., Marshall Co., 18 ft., 63,000 sq.yd. concrete, to Madill Constr. Co., Madill, $151,810, engrs. est. $160,000.

Colo., Denver—Curbing, grading and surfacing ¾x½ mi. North Denver Impvt. Dist. 34, to J. F. Roberts Constr. Co., Tramway Bldg., $106,754. Engrs est. $121,600. Noted June 26.

California—State Highway Comn., Sacramento, 5.94 mi. highway from Kings Mountain to La Honda Rds., San Mateo Co., 430,200 cu.yd. excav., 13,200 cu.yd. crushed rock surfacing, 3,600 cu.yd. structure excav., 594,400 sta.yd. overhaul, 48 acres clearing, grubbing, etc., to J. P. Holland, 540 Brannan St., San Francisco, approximately $315,000.

Calif., Eureka—Humboldt Co. widening 23,500 cu.yd. Lord Ellis Rd., to Smith Bros., Eureka, $0.93 per cu.yd.; constructing 6 mi. highway between Hoopa and Willow Creek, to A. J. & J. L. Fairbanks, 625 Market St., San Francisco, $48,250.

Calif., San Diego—Supervs. San Diego Co., asphalt paving 3.37 mi. road, to Steele Finley, Santa Ana, $92,259; concrete paving 8,206 lin.ft. Highland Ave., to D. H. Ryan, 1615 Fern St., $36,153.

Ontario — Dept. Provincial Highways, Toronto, paving 2 mi. Contr. 1020, washed gravel concrete, to Boss & Brazier, London, $65,000; 2.9 mi. Contr. 1027, waterbound macadam, to J. B. Wilkinson, Port Hope, $40,000; 0.34 mi. Contr. 1083, asphalt, to Warren Bituminous Paving Co., 54 University Ave., Toronto, $16,000; 2.5 mi. Contr. 1086, gravel concrete, to G. B. Wheeler, Pine Crescent, Toronto, $90,000; 5 mi. Contr. 1066, macadam surface treatment, to Dufferin Constr. Co., 210 Victoria St., Toronto, $15,000.

Ont., Cornwall — United Counties of Stormont, Dundas and Glengarry, 22 mi. loose crushed stone pavement, 8½ mi. waterbound macadam and 4½ mi. gravel roads as follows: 6 mi. to F. Milligan, Iroquois, 9½ mi. to McLean & Stidwell, Cornwall, 4 mi. to O. Major, Williamstown, 4½ mi. to F. Eagleson, Winchester, 3 mi. to E. Irwin, Alexander, 3½ mi. to N. A. McDonald & Co., Port Dalhousie Sta., Que., and 4½ mi. to J. B. Wilkinson, Port Hope. Total est. $350,000.

Ont., Listowel—Concrete paving Dodd and Argyle Rds. to Brennan Constr. Co., Hamilton, $1.96 per sq.yd. Noted Apr. 24.

Ont., Sudbury — Will lay 6,000 lin.ft. concrete sidewalks and pave ¾ mi. Louis St., waterbound macadam, by day labor. F. C. Lane, Town Hall, engr.

B. C., South Vancouver—One course concrete paving, etc. 2 mi. Fraser St., to Ritchie Contg. Co., 1318 Granville St., Vancouver, $53,228. Engrs. est. $60,000.

B. C., Vancouver—Paving Main St. from 2nd to 7th Aves., one course concrete, and from Prior to Hastings Sts., asphaltic concrete, to M. P. Cotton Co. Ltd., False Creek Yards, $73,173; 5½ mi. 4 ft. sidewalks, to Scott & Anderson, 306 20th Ave., E., $0.1575 per sq.ft.

Buildings—Industrial

PROPOSED WORK

Mass., Chelsea — Plant — Standard Box Mfg. Co., Gerrish Ave., having preliminary plans prepared by S. S. Eisenberg, archt. and engr., 46 Cornhill St., Boston, 4 story, 50 x 100 ft., brick and timber addition. $60,000.

New York—Substations, etc.—J. G. White Eng. Corp., 43 Exch. Pl., New York City, has been commissioned by Staten Island Edison Corp., St. George, to design and construct substations at Livingston, Eltingville, Atlantic, Arrochar, Clifton Junction, Dongon Hills and St. George, with transmission line from Livingston to Clifton Junction and thence to Eltingville and Arrochar, also addition to power plant at Livingston incl. 15,000 kw. unit.

S. C., Goldville—Mill—See "Buildings—Commercial" under Contracts Awarded.

Tenn., Trezevant—Plant—City Council plans light and power plant. $40,000.

Ky., Louisville—Factory—H. Pilcher & Sons Co., 908 Mason St., having plans prepared by F. Erhart, Norton Bldg., 2 story, 50x150 ft., brick and steel addition. $40,000.

Ill., Chicago—Factory—Nye Tool & Machine Co., 108 North Jefferson St., having plans prepared by Mundie & Jensen, 39 South La Salle St., and takes bids about Aug. 10, 1 story brick and steel, plain foundation, Fullerton Ave. $100,000.

Ill., Harvey — Boiler House — Whiting Corp., 155th St., having plans prepared by Chatten & Hammond, 160 North LaSalle St., Chicago, and takes bids about Sept. 1, 1 story and basement, 55 x 75 ft., brick and steel, plain foundation, 155th St. $40,000.

Ill., Harvey—Machinery Warehouse—Buda Co., 154th St., having plans prepared by Chatten & Hammond, 160 North Lasalle St., Chicago, 1 story and basement, 100 x 150 ft., rein.-con. and brick, rein.-con. foundation. $62,000.

Mo., St. Louis—Manual Training Shops—City soon takes bids 2 story and basement, rein.-con., stone and brick, for Bellefontaine Industrial School. $50,000. H. Updike & L. R. Bowen, 301 City Hall, engrs. E. E. Christopher and L. R. Bowen, 301 City Hall, archts.

Tex., Asherton—Ice Plant—See "Railways."

Tex., Bastrop — Mill — Bastrop Cotton Mills, plans 6,000 spindle capacity mill, 150 looms, etc., brick and concrete. $500,000. L. S. Williamson, Temple, secy. treas. Engineer and architect not announced.

Tex., Call—Kirby Lumber Co. soon lets contract mills, double band with resaw, etc. $75,000. Private plans.

Tex., Cameron — Cotton Gin — Schiller, Boedeker & Batte, plan cotton gin. $50,000.

Tex., Dallas—Factory—Amer. Sulphur & Fertilizer Co., Love Field, making plans addition to factory in Love Field Industrial Dist. Private plans.

Tex., Ft. Worth — Factory — Washer Bros., 8th and Main Sts., plans rebuilding factory recently destroyed by fire. $50,000.

Tex., Palacios—Power Plant—City, c/o D. Ruchzen, making plans power and light plant. $50,000 plus.

Tex., Paris—Factory—Cummer Crate Co. plans additions to factory. $45,000.

Tex., Waco—Cotton Mill—C. R. Miller Mfg. Co. plans cotton mill addition $200,000.

Ore., Klamath Falls—Power House—See "Dams."

Calif., Anaheim—Plant—Crystal Chemical Co., H. W. Hellman Bldg., Los Angeles, plans chemical plant expansions, $350,000.

Calif., Glendale — Power Plant — Plans election to vote $300,000 bonds to construct auxiliary power plant.

Calif., Hollywood—Plant—Consolidated Film Industry Inc., c/o S. H. London, 6362 Hollywood Blvd., to appropriate funds to finance group of 3 story fireproof mechanical laboratory buildings. $2,500,000.;

Calif., Los Angeles—Packing Plant and Warehouse—Cheek—Neal Coffee Co., J. O. Cheek, pres., Cummins Sta., Nashville, Tenn., having plans prepared by J. M. Cooper, Marsh-Strong Bldg., 5 story, concrete, brick and steel, 4th and Main Sts., here. To exceed $40,000.

Que., Val Tetreau—Substation and Steam Plant—Ottawa River Power Co., Montreal, plans new substation and steam plant, here. $300,000. R. G. Gale, Hull, engr.

Ont., Toronto—Factory—Langleys Ltd., 249 Spadina Rd., plans 4 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, Yonge St. $150,000. Engineer and architect not selected.

BIDS DESIRED

Mass., Hopedale—Power House, etc—Draper Co., taking bids altering and constructing addtions to power house, and air compressor unit. To exceed $40,000. J. A. Stevens, 8 Merrimack St., Lowell, engr.

Pa., Monessin — Boiler House — See "Buildings—Commercial."

Pa., Pittsburgh—Machine Shop—Williams Garage Co., 543 4th Ave., taking bids 1 story, 60x120 ft., machine shop, Pennsylvania Ave. $75,000. Austin Co., Union Trust Bldg., engrs., will probably build.

Tex., Brownwood — Plant — Brownwood Ice & Fuel Co., taking bids ice plant and cold storage system. $50,000. H. Mount, Brownwood, archt.

CONTRACTS AWARDED

Mass., Somerville—Service and Repair Shop—Stevens-Stearns Motor Car Co., 68 Dover St., 2 story, 55 x 70 ft., Dover St., to Willis & Munroe, 8 Bay State Ave., archt. est. $40,000.

Mass., Springfield—Plant—Westinghouse Electric Co., Pittsburgh, Pa., 2 story, 80x90 ft., heating plant and boiler house, rein.-con. and brick, Washington, St. and Page Blvd. to Fred T. Ley Co., Inc., 230 Boylston St., Boston. Archts. est. $125,000. Noted June 5.

Mass., Springfield—Repair and Storage—Hayes Electric Co., 34 Taylor St., 3 story and basement, 50 x 100 ft., brick and timber, Taylor St., to E. J. Pinney Inc., 374 Main St., archts. est. $45,000.

N. Y., Buffalo—Plant—Klinck & Schaller, Inc., 624 Babcock St., 2 story, 55 x 65 ft., rein.-con., brick and steel addition, to Metzger Constr. Co., 676 Genesee St., to exceed $42,000.

N. Y., New York—Bakery—Fink Bread Co., 438 East 72nd St., 4 story, rein.-con., brick and steel, 526 East 76th St., to Fisher-Williams Corp., 103 Park Ave., $200,000.

Pa., Harrisburg — Power Plant — Dept. Property & Supplies, Capitol Bldg., alterations and extensions to power plant in Capitol Buildings, to T. W. Sprayer, Harrisburg. Engrs. est. $144,000. Noted June 26.

Pa., McKees Rocks — Bakery — Hankey Bakery Co., general contract 4 story and basement, 77x100 ft addition to H. Busse Co., Main and Wabash Sts., Pittsburgh. Archts. est. $100,000.

Pa., Phila.—Dye House, etc.—Ballinger Co., archts., 12th and Chestnut Sts., 1 story, 54 x 71 ft. and 31 x 50 ft., dye house and engine room, brick and steel, plain foundation, Mitchell and Rector Sts., to P. Harbach, 1261 North 26th St., for Kauffman Plush Co., Inc. Archts. est. $40,000.

Pa., St. Davids — Plant — Wayne Iron Wks., Commercial Trust Bldg., Phila., 1 story, 49x174 ft., brick and steel, plain foundation, to F. A. Havens, 845 North 19th St., Phila.

Ga., Augusta — Power House, etc. — Augusta-Aiken Railway & Electric Co., Lamar Bldg., Augusta, for its subsidiary Georgia-Carolina Power Co., power house extensions, incl. gates, racks, 3,125 hp. turbine, governor and 2,700 kw. generator, switchboard, etc., to J. G. White Eng. Corp., 43 Exchange Pl., New York City.

Tennessee—Power House, etc.—See "Railways."

O., Columbus—Factory—Lockwood, Green & Co., archts. and engrs., Hanna Bldg., Cleveland, one 3 story, 100x240 ft., and two 1 story, 96 x 168 ft. and 50 x 311 ft., steel, Chestnut St., to E. H. Latham, 60 East Broad St., for Columbus Bolt Wks., Co., Water and Chestnut Sts., $300,000. Noted June 5.

Mich., Detroit — Shop — See "Buildings Commercial."

Mich., Detroit—Substations—Pub. Lighting Comn., 138 East Atwater St., 14 single unit substations to General Electric Co., River Rd., Schenectady, N. Y., $748,400, 4 two unit substations to Westinghouse Electric & Mfg. Co., East Pittsburgh, $383,960.

Ill., Chicago—Plant—Hall Printing Co., 466 West Spencer St., 2 story, 100 x 500 ft., brick and steel, Kilpatrick and Diversey Aves., to J. W. Snyder Co., 116 South Michigan Blvd. Archts. est. $2,000,000. Noted Apr. 17.

Ill., Chicago—Plant—E. F. Houghton & Co., 240 West Somerset St., Phila., Pa., 1 story and basement compounding building, mill type building, and 2 story, 85 x 100 ft., here, to Austin Co., 208 South LaSalle St.

Mo., St. Louis—Plant—Mississippi Glass Co., 4070 North Main St., 1 story 40x112 ft., rein.-con. and sheet metal, Hall St., to D. P. Robinson Co., 125 East 46th St., New York, City, $75,000.

Ark., Fayetteville—Factory—Chamber of Commerce, J. F. Moore, secy., will build 2 and 3 story, 60 x 140 ft., brick and concrete, by day labor. Noted June 19.

Calif., Berkeley — Creamery — Berkeley Farm Creamery, 2116 Allston Way, cream-

Buildings—Industrial, (Continued)

ery, to Heath & Wendet, 1150 The Alameda, $43,500.

Calif., Monte Vista — Packing Plant — West Ontario Citrus Assn., Ontario, steel and concrete packing plant, to Campbell Constr. Co., Ontario, $85,000.

Calif., Stockton—Roundhouse and Machine Shops—Western Pacific Ry. Co., Poplar and Sacramento Sts., roundhouse and machine shop, to W. A. Betchel, 625 Market St., San Francisco, $68,000 and $39,000 respectively. Noted July 10.

Buildings—Commercial

PROPOSED WORK

Me., Portland — Hotel — Congress Sq. Hotel, 16 Forest Ave., plans 8 story, brick addition. $250,000. Engineer or architect not selected. H. P. Rines, mgr.

Mass., Arlington (Boston P. O.)—Office and Store—C. A. Shionis, Coolidge Corner, Brookline, having plans prepared by S. F. Sutherland & Co., 77 Summer St., Boston, rein.-con. and brick, Bway. and Medford St., $150,000.

Mass., Beverly — Dormitory — Country Week Assn., plans dormitory, McLoughlin & Burr, 88 Tremont St., Boston, engrs. To exceed $150,000.

Mass., Boston — School — School House Dept., City Hall, having plans prepared by J. F. Cullen, 333 Washington St., 2 story and basement, 85 x 140 ft., brick and stone addition to Frank V. Thompson elementary School, Maxwell and Selden Sts., $300,000.

Mass., Methuen (Lawrence P. O.) — School—School Comn., having plans refigured by Ashton, Huntress & Alter, 477 Essex St., Lawrence, 2 story, 12 x 100 ft., brick, Ditson Pl. $150,000.

Mass., Newburyport — High School — School Bd., plans high school, $500,000. Engineer and Architect not selected. E. M. Coffin, chn.

R. I., Woonsocket—Theatre and Stores—Whiting Realty Co., c/o Elks Home, Washington St., Providence, had revised plans prepared by Perry & Whipples, 15 Westminster St., Providence, 1 and 2 story and basement, 85 x 145 ft. and 50 x 100 ft., brick, Washington St., $150,000. Noted Feb. 28.

Conn., Bridgeport—Library—Library Bd. having plans prepared by F. J. Dixon, 945 Main St., State and Broad Sts. $400,000.

Conn, Hamden (New Haven P. O.)—Church—St. Anne's Parish, 363 Morse St., Highwood, having plans prepared by F. Rubino, 593 Howard St., New Britain, 1 story and basement, 45 x 115 ft., rein.-con. and brick, Dixwell Ave. and Arch St., $150,000 A. Santolim, pastor.

Conn., Hartford — Hotel — A. Simons, Main St., having preliminary plans prepared by Tuck & Co., 101 Tremont St., Boston, Mass., 16 story and basement, Asylum St. $200,000.

Conn., Hartford—Store and Apartment—M. Mantelli, Pleasant and Village Sts., having plans prepared by J. E. Marchetti, 721 Main St., 4 story and basement, 50 x 150 ft., brick, plain foundation, Pleasant St., $150,000.

Conn., New London—Store—F. W. Woolworth, 80 State St., plans new store, State St. $150,000.

Conn., Stamford — Hospital — Stamford Hospital, having plans prepared new buildings, alterations, additions, nurses home etc., Hubbard Hill. $600,000. Private plans.

N. Y., Buffalo—Apartment—Kushin & Konikoff, Prudential Bldg., having plans prepared by J. J. Giegand, 346 Herman St., rein.-con., brick and steel, Summer Ave. $150,000.

N. Y., Buffalo—Ice Rink—W. Weigel, 144 Humboldt Parkway, had plans prepared by Plumer & Mann, 700 Main St., and soon takes bids 1 story, 150 x 350 ft., rein.-con. and brick, Main St. $500,000.

N. Y., Brooklyn—School—Bd. Educ. 500 Park Ave., New York City having plans prepared by W. H. Gompert engr. and archt Flatbush Ave., extension and Concord St. addition to P. S. 123, brick and steel, plain foundation, 84th St. $500,000.

Mich., Detroit—Mercantile—Peoples Outfitting Co., Michigan Ave., having plans prepared by A. Kahn, 1000 Marquette Bldg., 12 story and basement, 30 x 100 ft., Michigan Ave., and 12 story and basement, 60 x 100 ft., Shelby Ave., both rein.-con., brick and steel, plain foundations.

Mich., Highland Park (Detroit P. O.)—Field House—Bd. Educ., 2nd Blvd. and Glendale Ave., having plans prepared by Burrowes & Eurich, 3633 Cass Ave., Detroit, 2 story, rein.-con., brick and steel, plain foundation, Oakland Ave., for Thompson School. $150,000.

Ill., Chicago — Apartment — Rosen & Coyne, c/o Dubin & Eisenberg, archt., 14 West Washington St., having plans prepared and takes bids about Aug. 1, 3 story and basement, 65 x 150 ft., brick and timber, plain foundation. $150,000.

Ill., Chicago—Apartment—E. A. Thoreson, c/o R. France, archt., 155 North Clark St., having plans prepared and soon takes bids 3 story and basement, 114 x 119 ft., brick and steel, plain foundation, Addison St.

Ill., Chicago—Y. M. C. A. of Chicago, 19 South La Salle St., having plans prepared by Berlin & Swern, 19 South La Salle St., and takes bids about Aug. 15, 4 story and basement, 165 x 200 ft., brick and steel, plain foundation, Central Ave. and Race St. $600,000.

Ill., Cicero — Club, Store, Hall, etc. — Sokol Slavsky Society having plans prepared by J. J. Novy, 2434 South Ridgeway Ave., and takes bids about July 21, 3 story and basement, 131 x 261 ft., rein.-con., brick and stone, 22nd St. and Lombard Ave. $1,000,000.

Ill., Glenco—Library—Womens Library Club, c/o A. O. Olsen, pres., Haxel Ave., having preliminary plans prepared by G. W. Maher & Son, 157 East Erie St., Chicago, 2 story and basement, brick and limestone. $200,000.

Ill., Springfield—Store—A. S. Alschuler, archt., 28 East Jackson St., Chicago, soon takes bids 10 story and basement, 80 x 160 ft., rein.-con. and brick, 5th and Washington Sts., for Meyer Bros. Clothing Co., to replace store recently destroyed by fire Noted July 17.

Ill., St. Charles—School—Bd. Educ. having plans prepared by G. L. Lockhart, 527 Minnesota St., St. Paul, Minn., and 25 East Jackson St., Chicago, 2 story and basement, rein.-con., brick, tile and stone. $200,000.

Ia., Cedar Rapids—Hospital—St. Lukes Hospital, T. R. Warringer, 119 2nd Ave., chn. building comn., takes bids about Aug. 9, 6 story and basement, 40 x 180 ft., rein.-con., brick, tile and stone, A Ave. and North 11th St. $325,000. E. W. Dearing, 193 Pilgrim Rd., Boston, Mass., archt.

BIDS DESIRED

Mass., Leominster—Business—F. Block, Main St., taking bids 2 story, 75 x 115 ft., brick and stone, Main St., $150,000. H. M. Francis & Son, 804 Main St., Fitchburg, archts.

Conn., Bridgeport — Temple — Loyalty Odd Fellows Bldg. Assn., Inc., c/o H. E. Koerner, archt., 164 State St., taking bids brick, temple, plain foundation State St. $225,000.

N. Y., New York—Courthouse—Aug. 14, by Bd. Estimate and Apportionment in Council Ohamber, City Hall, courthouse, Center, Worth, Baxter and Pearl Sts., Contr. A, interior finish, Contr. B, drawn steel fixture work, Contr. C plumbing work, Contr. D, heating and ventilating, Contr. E, electrical work. P. J. McGowan, secy.

N. Y., Croton-on-Hudson—High School—Aug. 15, by Bd. Educ., U. F. S. D. 2, new high school, H. Stevenson, 101 Park Ave., New York City, engr.; adv. E. N.-R. July 24.

Pa., Monessin—School, etc.—St. Leonards Roman Catholic Congregation, and C. Strong, archt., Keystone Bldg., Pittsburgh, taking bids 2 and 3 story and basement, 30 x 35 ft., 36 x 56 ft., and 66 x 110 ft., school, convent and boiler house, brick, tile and steel. $315,000.

Pa., Mt. Lebanon (Pittsburgh P. O.)—School—St. Bernards Roman Catholic Congregation, and Comes, Perry & McMullen, archts., Renshaw Bldg., Pittsburgh, taking bids 2 story and basement, 66 x 147 ft. school. $185,000.

Pa., New Castle—Temple—Aug. 30, by A. A. S. R. Scottish Rite, and R. G. Schid & Co., archts., Randolph St., Chicago, 1 story, balcony and basement, steel, brick, hollow tile and rein.-con. $500,000.

Pa., New Castle—Temple—Sept. 1, by Masonic Assn., temple, Lincoln and Highland Sts. $1,000,000 incl. site.

Pa., Woodville—Hospital July 30, by Bd. Directors of Poor, Courthouse, Pittsburgh, 2 and 3 story and basement, brick, hollow tile and steel, here. $850,000. F. McCrooks, 541 3rd Ave., Pittsburgh, archts. Noted June 5.

Va., Lynchburg—School—July 25, by A. R. Long., ch. Bd. Educ., 3 story, 170x202 ft., brick, Floyd and 12th Sts. $225,000. Heard & Chesterman, Lynchburg, archts. Noted Mar. 27.

North Carolina—Schools and Domitories. July 29, by H. B. Marrow, supt. Johnston Co. (Smithfield) brick school, at Pine Level, two schools at Clayton dormitories at Princeton and Glendale. $300,000. C. H. Cook, Charlotte, archt.

O., Columbus—Animal Husbandry—Sept. 2, by C. E. Steeb, secy. Bd. Trustees, Ohio State University, 2 and 3 story and basement, 140 x 180 ft. campus. $200,000. J. N. Bradford, Ohio State University, archt. Noted June 19.

Mich., Flint—Store—Malcomson & Higginbotham, archts., 1217 Griswold St., Detroit, taking bids and open same about Aug. 1, 8 story and basement, 43 x 148 ft., concrete, brick and steel, plain foundation, Saginaw and Union Sts., here, for Jobacker Furniture Co.

Ill., Chicago—Apartments—Aug. 1, by P. F. Olson, archt., 720 North Cass St., 3 story and basement, rein.-con. and brick, plain foundation, 1520-22 East 59th St., $150,000, also 3 story and basement, rein.-con., brick and wood, plain foundation, 1524-34 East 59th St., for A. W. Swain, Wrigley Bldg.

Ill., Chicago—Warehouse—July 28 (extended date), by G. S. Kingsley, archt., 109 North Dearborn St., 6 story and basement, 75 x 150 ft., rein.-con., brick and terra cotta, 4904-10 Madison St., for Blakeslees Warehouse Corp., 4860 Madison St. $175,-000. Noted July 10.

Ill., Wheaton—Theatre—E. N. Brydges, archt., 5 North LaSalle St., Chicago, taking bids 1 story and basement, 72 x 150 ft., rein.-con., brick and steel, plain foundation, Hale St., here, for Deis & Dornberg, Wheaton, $150,000.

Wis., Racine—Memorial Hall—August 4, (extended date) by Memorial Hall Comm. A. Horlick, Jr., pres. 1 and 2 story, 180x200 ft., brick and concrete memorial hall. $300,000. H. Shaw, 104 South Michigan Ave., Chicago, Ill., archt.

Mo., Joplin—Memorial, etc.—July 29, by City Clerk, 2 story, 140x187 ft., rein.-con., brick and stone. $200,000. A. C. and A. S. Michaelis, 324 Miners Bank, archts. Noted Feb. 21.

Mo., Lebanon—Court House—July 22, by Clerk Laclede Co., 3 story and basement, 63x100 ft., rein.-con., brick and stone. E. Hawkins & Co., McDaniel Bldg., Springfield, archts.

Tex., Dallas—Church—Aug. 1, by M. C. Cameron, chn. Building Comn. First Methodist Congregation, 3800 Stratford Sts., 2 story and basement, 160 x 232 ft., rein.-con., brick and steel, Ross and Harwood Sts. R. H. Hunt & Co., 1301 Southwestern Life Bldg., archts.

Tex, Seabrook—Dormitory—Harris Co., Houston, taking bids 2 story and basement, concrete and tile, Clear Lake, here. $150,000. P. D. Steele, 1st Natl. Bank Bldg., Houston, archt.

Calif., Los Angeles—Hotel—M. Friedman, archt., Detwiler Bldg., taking bids 4 story and basement, 80 x 150 ft., brick, 7th and Berendo Sts., for I. Holsman, c/o architect. $165,000.

Calif., Los Angeles—Library—August 15, by Bd. Library Directors, 4 story and tower, 200 x 325 ft., rein.-con., plain foundation, 5th St. $1,350,000. C. M. Winslow, 921 Van Nuys Bldg., archt. Noted May 8.

Calif., Oakland—Stores and Offices—Alameda County Builders Exchange, 357 12th St., will build 4 to 6 story, concrete, Hobart and Webster Sts. Work will be done by separate contract under supervision of H. Schroeder, archt., 357 12th St. $150,000 or more.

Calif., San Jose—Club—Binder & Curtis, archts., 255 First St., taking bids 4 story and basement, rein.-con., 5th and San Fernando Sts., for Catholic Womens Community Center, c/o architects. $150,000. Noted July 10.

BIDS RECEIVED

Mich., Detroit—School—C. A. Gadd, bus. mgr. Bd. Educ., 2 story and basement, 162 x 385 ft., rein.-con., brick and steel, plain foundation, LaSalle Blvd., from Cooper-Widenmann Constr. Co., 4612 Woodward Ave., $545,000. Noted June 26.

CONTRACTS AWARDED

Mass., Boston — Apartment — Rosen & Rudnick, 19 Milk St., will build 4 and 5 story and basement, rein.-con., Cleveland Circle, Beacon St. and Commonwealth Ave., by day labor under supervision of S. S. Eisenberg, archt. and engr., 46 Cornhill St. $750,000.

Mass., Pittsfield—Church—Trinity Methodist Episcopal Church, 2 story, 40 x 85

Buildings—Commercial (Continued)
ft., rein.-con., brick and stone, Dalton St., to J. R. Hawkson & Co., Inc., 104 North St. Archts. est. not to exceed $150,000. Noted June 5.

Mass., Worcester — Mercantile — H. E. Clark, 3 Chestnut St., alterations and additions to mercantile building, Main and Forster Sts, to L. Rocheford & Son, 44 Front St., $150,000.

R. I., Cranston—School—School Dept., 2 story and basement, 90 x 130 ft., brick, to Bowerman Bros., 230 Industrial Trade Bldg., Providence. Archts. est. to exceed $150,000. Noted Jan. 31.

Conn., Bristol — School — Third School Dist., c/o E. Funk, 83 Prospect St., 2 story, brick and steel, Church St., to Torrington Building Co., 182 Church St., Torrington, $144,655.

Conn., Wallingford—Hospital—Masonic Home, c/o W. Arnold, archt., 34 West Main St., Meriden, 4 story and basement, brick, plain foundation, Masonic Ave., to C. F. Wooding Co., Wallace Ave., archts. est. $150,000. Noted Oct. 18.

N. Y., Buffalo—School—Bd. Educ., 1400 Telephone Bldg., addition to P. S. 45, rein.-con. and brick, Baynes St., to Mosier & Sumners, 1266 Seneca Ave., $224,384.

N. Y., Brooklyn—Municipal—E. Riegelmann, boro pres., Boro Hall, general contract new Municipal Building, Court and Joralemon Sts., to Cauldwell-Wingate Co., 381 4th Ave., New York City, $4,174,800, heating and ventilating, to Gillis & Geoghegan Inc., 537 West Bway., New York City, $222,340. Noted June 19.

N. Y., New York—Apartment—Omaha Realty Co., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., will build 15 story, 87x120 ft., brick, steel and stone, plain foundation. West End Ave., by day labor. $1,000,000.

Pa., Millvale — Lyceum — St. Anthonys Lyceum, general contract 3 story and basement, 47x100 ft., to F. X. Pfendler & Co., 607 Farrugut St. Archts. est. $150,000.

Pa., Phila.—Apartment—Nineteenth and Walnut St. Corp., c/o W. Anderson, 600 Schuylkill Ave.. one connecting wing 35x43 ft., brick, limestone and steel, 19th and Walnut Sts to Roberts & Roller, 1904 Sansom St.

Pa., Phila.—Church and Sunday School—Oak Lane Methodist Episcopal Church, 1 story, gallery and basement, 65 x 188 ft. with 40 x 98 ft. wing, steel and stone, plain foundation, 12th St. and city line, to E. E. Hollenback, Inc., 1804 Bradywine St. $150,000.

Pa., Phila.—Schools—Bd. Educ., 19th and Chestnut Sts., 3 story and basement, 110 x 188 ft., rein.-con. and brick, 19th and Wharton Sts., general contract, to M. Melody & Son, 1322 Race St., $410,840, heating, to Thompson Bros., 50 Ballinood St., $49,861; 3 story and basement, 45 x 107 ft. and 34 x 68 ft. wings, rein.-con. and brick addition to Merton McMichael School, 35th and Fairmount Sts., general contract, to McClosky Co., 1620 Thompson St., $181,726, heating to N. Connelly, 1401 North 18th St., $42,500. Noted July 17.

Pa., Uniontown—Bank and Office—Citizens Title & Trust Co., general contract 7 story and basement, 73 x 150 ft., rein.-con., brick and steel plain foundation, to Mellon-Stuart Co., Oliver Bldg., Pittsburgh. Archts. est. $350,000. Noted May 15.

W. Va., Williamson—Hotel—Williamson Community Hotel Corp., 5 story, 100 x 100 ft., rein.-con., to Payne Constr. Co, 317 Kitchen Bldg., Ashland, Ky. $258,-000. Noted Dec. 6.

N. C., Charlotte—Municipal—General contract city hall, fire department and court building, limestone trim, East Trade St., to J. A. Jones Constr. Co., Realty Bldg., $488,000; heating, to J. L. Powers, Bennettsville, S. C., $26,923. Noted June 26.

S. C., Goldville—Cottages—Joanna Cotton Mills, 45 new cottages, to W. M. Welch, Greenville. Lockwood, Green & Co., Atlanta, Ga., acting as engrs. and construction mgrs., 24 Federal St., Boston, Mass., have entire supervision work, and extension to mill, which will be let shortly.

Tenn., Memphis—Terminal—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., 3 story, 67 x 300 ft., brick and steel, here, to Ellington-Miller Co., 417 South Dearborn St., Chicago, Ill. Archts. est $250,000.

O., Marble Cliff (Columbus P. O.)—Church—Bd. Church Trustees, Marble Cliff, Grandview and Upper Arlington, 2 story and basement, rein.-con., brick and steel, Cambridge Blvd., to Knox & Phillips, 133 Eldron St., Columbus, $200,000.

Ind., Hammond—Bank and Office—First Natl. Bank, 9 story and basement, 81 x 160 ft., steel and limestone, Homan and Fayette Sts., to C. E. Clark, 69 West Washington St., Chicago, Ill. Archts. est. $800,000. Noted Jan. 25.

Mich., Detroit — Office, etc. — General Electric Co., 1501 Dime Bank Bldg., 5 story and basement, 75 x 200 ft., office, warehouse and shop, also 1 story, 40 x 186 ft. service shop, rein.-con., brick and steel, plain foundation, 3rd and Antoinette Sts., to H. G. Christman Co., 315 Stevens Bldg. Archts. est. $175,000. Noted May 1.

Mich., Flint—Armory—L. Pearson Lt. Col. Q. M. C., Michigan Natl. Guard, State Military Bd., Lansing, 1 story and part basement, rein.-con., brick and steel, plain foundation, to Mathias & Johnson, Flint, $151,230. Noted May 29.

Ill., Chicago—Apartment—T. B. Swanson, 561 Diversey St., 5 story and basement, rein.-con. and brick, Commonwealth Ave., to A. and E. Anderson, 19 South La Salle St. Archts. est. $500,000.

Wis., Milwaukee — Schools — Bd. Educ., (a) concrete and excav. (b) masonry (c) steel (d) carpentry (e) heating and ventilating in (1) 3 story and basement, 130 x 157 ft., Locust St. (2) 3 story and basement, 50 x 100 ft. addition to Boys Technical High School, College Pl., both brick, tile and concrete, plain foundation, to Newton Eng. Corp., 185 Mason St. (a1) $110,-900 (a2) $32,900; to H. Schmitt & Son, 430 Farwell Ave., (b1) $63,595; to C. Hennecke Co., North Pierce St. (c1) $14,-424 (c2) $2,751; to P. W. Bringe Co., 940 3rd St. (d1) $49,800 (b2) $18,797; to P. E. Mueller Co., Park St. (e1) $38,470; to Laatsch Bros., 415 West North Ave., Wauwatosa (d2) $4,500. Noted Apr. 10.

Mo., Lebanon—High School—Bd. Educ., general contract Wallace Memorial High School, 3 story, rein.-con., brick and stone, to Easley Bros., Aurora.

Mo., St. Louis—Theatre—F. M. Hoelzer, 7127 Michigan Ave., general contract 2 story and basement, rein.-con., brick and stone, Michigan and Robert Sts., to F. Voirol, 128 West Koel St. $150,000.

Ark., Pine Bluff — High School — Bd. Educ., Junior High School, 2 story and basement, rein.-con., brick and stone, general contract, to E. C. Royce, 208 Citizens Bank Bldg., $119,000. Noted May 22.

Wyo., Casper — High School — Garbutt, Weidner & Sweeney, archts., Cons. Roy. Bldg., 3 story, high school, South Elm St. for Bd. Educ., to Swanstrom & Breedland, Butte, Mont., $592,908, plumbing, heating, ventilating, etc., to D. P. Johnson, Denver, Colo., $102,155.

Calif., Los Angeles—Hotel and Store—Hastings and Riley, 3706 Whittier Blvd., 4 story and basement, approximately 50x150 ft., brick. Georgia St., to W. F. Riley, 3706 Whittier Blvd., percentage basis.

Calif., Los Angeles—Stores and Loft—R. N. Park, 501 South Mariposa St., 4 story and basement, 100x100 ft., brick and steel, 7th St. and Parkview Ave., to Winter Constr. Co., Railway Bldg., $152,000.

Calif., Los Angeles—Stores and Apartments — W. E. McKenzie, 125 South Plymouth Blvd., 4 story and basement, approximately 70 x 150 ft., brick, Union Ave., to Bavin & Burch, 173 East Jefferson St., $155,000.

Calif., Los Angeles—Store—Bullocks, 659 South Broadway, 2 story (ultimately 6 story), and basement, 200 x 278 ft., rein.-con., 10th St., to P. J. Walker, Merchants Natl. Bank Bldg., percentage basis.

Calif., Los Angeles—Warehouse—California Truck Co., 322 East 3rd St., 6 story and basement, 110 x 375 ft., rein.-con., 6th and Mill Sts., to C. A. Fellows, Central Bldg., approximately $550,000.

Calif., Pasadena—Salesroom, Loft, etc. —Pasadena Furniture Co., 83 North Raymond Ave., 7 to 10 story and basement, 78 x 170 ft., rein.-con., East Colorado Ave., to S. M. Benet & Co., 416 Beverly Dr., Beverly Hills, cost plus percentage basis.

Calif., San Francisco—Apartment—McKillop Bros., Russ Bldg., will build 6 story and basement, concrete, Clay and Octavia Sts., by day labor. Bauman & Jose, 251 Kearny St., archts.

Calif., San Francisco—Apartments—S. L. Peyser, 209 Post St., 6 story and basement, concrete, Jackson St. near Buchanan St., to F. L. Hansen, 510 Post St. $150,000.

Calif., San Francisco—Exchange—Pacific Telegraph & Telephone Co., 333 Grant Ave., 12 story and basement, Class A annex, Bush St., to Dinwiddie Constr. Co., Crocker Bldg., approximately $750,000.

Calif., San Francisco — Hospital — St. Lukes Hospital, 27th and Valencia Sts., alterations and additions to hospital, brick and steel, Valencia St., to C. Stockholm & Sons, Monadnock Bldg., $150,000.

Calif., San Francisco—Stores and Offices —Marian Realty Co., 1171 Market St., will build 6 story and basement, steel and concrete, Market St. near 8th St., by day labor. Rousseau & Rosseau, 1171 Market St., archts.

Federal Government Work

PROPOSED WORK

Mass., Rutland—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., rejected bids constructing and finishing 7 buildings at U. S. Veterans Hospital 89, here. Noted July 3.

Pa., Pittsburgh—Walls—U. S. Engineer Office, Pittsburgh, plans rebuilding land and guard walls at Lock 5, Monongahela River.

Ala., Mobile—Walls—U. S. Engineer Office, Mobile, plans guide walls at 17 locks on Alabama and Tomdbigbee Rivers, and installing gasoline hoists to pull barges through locks.

Ky., Louisville—Clam Shell Buckets—U. S. Engineer Office, plans to purchase three 1½ cu.yd. heavy excavating type clam shell buckets for Dam 51, Ohio River.

Ky., Owensboro—Wood Piles—U. S. Engineer Office, P. O. Box 72, Louisville, plans to purchase one thousand two hundred 20, 25 and 30 ft. round wood piles for Dam 46, Ohio River, here, f.o.b. Owensboro.

Ill., Brookport—Steel Sheet Piling, etc. —U. S. Engineer Office, P. O. Box 72, Louisville, Ky., plans to purchase 1,180 tons steel sheet piling and 1,500 round piles 20 to 30 ft. long, for Dam 52, Ohio River.

Ill., Great Lakes — Railroad — Bureau Yards & Docks, Navy Dept, Wash., D. C., plans trestle replacement.

H. T., Pearl Harbor—Water Discharge Loop—Bureau Yards & Docks, Wash., D. C., soon opens bids circulating water discharge loop, 54 in. precast concrete pipe, at Naval Operating Base, here.

BIDS DESIRED

Pa., Phila.—Dike—Aug. 8, by U. S. Engineer Office, War Dept., Wash., D. C., 3,300 ft. timber and stone dike in Delaware River, near Alloway Creek, N. J.

Pa., Pittsburgh—Engines—Aug. 9, by U. S. Engineer Office, one pair steamboat engines; adv. E. N.-R. July 24.

D. C., Wash.—Quarters—Aug. 19, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., nurses quarters, and storehouse, at U. S. Veterans Hospital 32, here. F. T. Hines, dir.; adv. E. N.-R. July 24.

W. Va., Huntington—Riprap, etc.—Aug. 11, by U. S. Engineer Office, War Dept., Wash., D. C., 21,000 tons riprap or 16,000 cu.yd. concrete blocks at Dam 32, Ohio River, here.

Ga., Atlanta—Water Tank, etc.—Aug. 12, by U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., water tank, sewage disposal plant, new boiler, etc., at U. S. Veterans Hospital 48, here. F. T. Hines, dir.; adv. E. N.-R. July 24

Ga., Savannah—Hospital—Aug. 6, by Supervising Architect at office Treas. Dept., Wash., D. C., remodeling U. S. Marine Hospital here; adv. E. N.-R. July 24.

Ala., Florence—Lock Gates—Sept. 20, by U. S. Engineer Office, Florence, structural steel lock gates, incl. fittings, castings, etc., for Wilson Dam; adv. E. N.-R. July 24.

Ala., Montgomery—Towboat—Aug. 15, by U. S. Engineer Office, Montgomery, one 134 ft. steel hull stern wheel towboat; adv. E. N.-R. July 24.

Mich., Detroit—Dredging—July 31, Engineer's Office, War Dept., Wash., D. C., dredging approximately 220,000 cu.yd. material in Saginaw Bay and River.

Montana—Roads—July 29, by C. H. Purcell, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, at Smead-Simons Bldg., Missoula, constructing or improving 6.6 mi. West Gallatin (Park Boundary Sect) Natl. Forest Rd. Project located within or partly within Gallatin Natl. Forest, Gallatin Co.

Montana—Roads—July 31, by C. H. Purcell, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, State Hy. Comn., Helena, constructing or improving, 0.84 mi. Yellowstone Canyon (Yankee Jim Sect.) Natl. Forest Rd. Project located within or

Federal Government Work (Continued)

partly within Absaroka Natl. Forest, Park Co.

Montana—Roads—July 30, by C. H. Purcell, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, 607 Smead-Simons Bldg, Missoula, constructing or improving 3.31 mi. Yellowstone Trail Nine Mile Natl. Forest Rd. Project located within or partly within Lolo Natl. Forest, Missoula Co.

Mo., Labaddie—Current Retards—Aug. 5, by U. S. Engineer, War Dept., Western Union Bldg., Kansas City 250 lin.ft. current retards in Missouri River, near here.

New Mexico—Road—July 31, by E. S. Wheeler, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, 242 West Washington St., Phoenix, Ariz., grading and graveling 5.798 mi. Alma-Dry Creek Natl. Forest Rd., in Gila Natl. Forest, Grant and Catron Counties.

Idaho—Roads—July 29, by C. H. Purcell, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, 607 Smead-Simons Bldg., Missoula, Mont., constructing or improving 4.5 mi. Lolo Pass-Idaho-Summit Haskell Creek Sect. Natl. Forest Rd. Project located within or partly within Selway Natl. Forest, Idaho Co.

BIDS RECEIVED

La., New Orleans—Levees—Mississippi River Comn., 140 Decatur St., constructing Somerset Levee in Lower Tensas Levee Dist., 432,000 cu.yd., from Hercules Co. Inc., Cotton Exch. Bldg., $99,360; St. Joseph Levee, 530,000 cu.yd., and Bourbon Levee, 400,000 cu.yd., from H. B. Blank, Vicksburg, Miss., $231,875 and $216,000 respectively; Panola Levee, 650,000 cu.yd., from O. O. Ogden, Roumain Bldg., Baton Rouge, $119,925; Limerick, Beauleau and Brusley Levees, Atchafalaya Levee Dist., 610,000 cu.yd., from Howard Kenyon Dredging Co., 3603 McKinney St., Houston, Tex., $120,000.

CONTRACTS AWARDED

Del., Wilmington—Bridges—U. S. Engineer Office, Wilmington, 3 highway bridges over inland waterway from Delaware River to Chesapeake Bay, to Phoenix Bridge Co., Phoeninxville, Pa., $795,900, and Dravo Contg. Co., Commercial Trust Bldg., Phila., $506,250. Noted May 1.

Md., Federal Park—Buildings, etc.—U. S. Veterans Bureau, War Dept., U. S. Hospital buildings, to A. Blair, 11, St. Lawrence St., Montgomery, Ala., 590,482, additional for screens $10,133; plumbing and heating, to W. Wilby, Selma, $166,801; Noted July 3.

Ala., Florence—Cement—U. S. Engineer Office, Florence, furnishing 50,000 bbl. cement to Phoenix Cement Co., Birmingham, $109,250; 75,000 bbl. portland cement, to Atlas Portland Cement Co., 2000 1st Ave., Birmingham, $162,578.

Ala., Florence—Steel Rods, etc.—P. T. Samuels, ch. supply, Florence, steel rods and channels, to Jones & Laughlin, 1205 Union Trust Bldg., Cincinnati, O. $2,392, 50,000 ft. yellow pine, to McLeod Lumber Co., Hattiesburg, Miss., $2,075.

Tenn., Memphis — Levee — Mississippi River Comn., 1st and 2nd Dists., 1006 McCall Bld., levee work in Upper and Lower St. Francis, Reelfoot and White River Dists., Item 2, to Sternberg Dredging Co., Arcade Bldg., St. Louis, Mo., $61,755; Item 3, to R. P. Harris & Co., Lake Cormorant, Minn., $151,375; Items 4 and 5, to T. W. Roach, North Memphis, Tenn., $118,625; Items 14 and 17, to Lawrence Bros. & Co., Memphis, $459,580; Items 20, 22 and 23, to Rodgers Bros. Co., Memphis, $188,500. Noted June 26.

Miss., Gulfport—Mess Hall, etc.—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., mess hall addition, roads and walks, etc., at U. S. Veterans Hospital 74, here, to A. C. Samford, 24 Galena Ave., Montgomery, Ala., $48,450. Noted July 3.

Ky., Owensboro — Barges — Engineers Office, War Dept., Wash., D. C., 6 steel barges, to T. E. Stublett, Owensboro, $18,250.

Ky., Owensboro—Dwellings—U. S. Engineer Office, P. O. Box 72, Louisville, 2 lockkeepers dwellings at Dam 46, Ohio River, here, to T. E. Sublett, Owensboro, $18,250. Noted May 29.

Mo., St. Louis—Barges—U. S. Engineer, 428 Custom House, furnishing six 152 ft. steel barges, to Riter Conley Co., Leetsdale Ave., Pittsburgh, $126,600. Noted July 3.

Washington—Bureau Pub. Rds., U. S. Agricultural Dept., 316 New Post Office Bldg., Portland, Ore., grading and surfacing 3.4 mi. Ranier Natl. Forrest Highway in Kittitas Co., and 4.4 mi. Ranier Natl. Forrest Highway in Lewis Co., to Williams & Douglas, Tacoma, $103,865 and $102,350 respectively.

Oregon — Bridge — C. H. Purcell, dist. engr. Post Office Bldg., Portland, 150 ft. steel bridge over Breilenbush River, Marion Co., to Lindstrom & Fiegenson, Worcester Bldg., Portland, $18,240.

Oregon—Road—C. N. Purcell, dist. engr. Post Office Bldg., Portland, grading and surfacing 17 mi. roads in Dalls-California Highway, to J. Hampshire, Grants Pass, $205,729.

Oregon — Bridge — C. H. Purcell, dist. engr., Bureau Pub. Rds., Dept. Agriculture 316 New Post Office Bldg., Portland, bridge over Bogachiel River, Clallan Co., to J. W. Sadler, 115 East 74th St., Portland, $47,949.

Unclassified

PROPOSED WORK

Transmission Line — New York — See "Building—Industrial."

Retaining Walls—St. Louis, Mo.—See "Sewers."

Wharf—Beaumont, Tex.—Making plans rebuilding and additions to Wharf 1. $50,000 plus. R. M. Fulweiler, city engr.

Park Improvements — Childress, Tex. — Voted $35,000 bonds park improvements, incl. drives, walks and excavation for lake.

Gas Mains—Dallas, Tex.—Dallas Gas Co., 2016 Jackson St., plans gas main improvements. $250,000.

Park Improvements—Ft. Worth, Tex.—City Park Bd. plans park improvements incl. drives, etc., in Trinity Forest, Sycamore and Stratford Parks. $125,000. R. L. Lewis, city engr.

Generating and Distributing Systems—Los Angeles, Calif.—Plans election to vote $16,000,000 bonds for electric generating and distributing systems.

Street Lighting System — Los Angeles, Calif. — Made plans 74 c.l. standards in Washington St. between Vermont Ave. and Hobart Blvd., 92 c.l. standards in Washington St. between 8th Ave. and Rimpau Blvd., 42 pressed steel standards in 24th St., 7 concrete standards in Stanley Ave., 10 in Windsor Blvd., and 78 in Rimpau Blvd. J. Griffin, city engr. Noted July 10.

Tunnel—Santa Cruz, Calif.—Santa Cruz Co. making plans rein.-con. railroad underpass about 8 mi. from here soon takes bids (first unit) drainage tunnel. $50,000. L. Bowman, co. engr.

Electric Light System—Niagara Falls, Ont.—City plans electric lighting system, power line, etc., $60,000. T. S. Scott, city engr.

BIDS DESIRED

Drydock, etc.—Waterford, N. Y.—Bureau of Canals, Albany, July 18, drydock and approach channel from S. W. Holler Co., Inc., Fort Edward, N. Y., $179,934. Engrs. est. $206,853.

Street Lighting — Aurora, Ill. — See "Bridges."

Culverts—Denison, Ia.—Aug. 4, by Clerk Crawford Co., 31 culverts and extensions, and 1 pony truss bridge, incl. 1,029 cu.yd. rein.-con., 1,548 lin.ft. wood piling, 27,200 lb. steel. H. B. Fischel, Denison, engr.

Pier—Port Burwell, Ont.—Aug. 6, at office Dept. Pub. Wks., Ottawa, reconstructing 271 ft. of east pier. $60,000. S. E. O'Brien, secy.

Turbine—Toronto, Ont.—Aug. 19, by W. W. Hiltz, mayor, City Hall, furnishing and erecting 400 hp. steam turbine. R. C. Harris, city engr.

Storage Tanks, etc.—Vancouver, B. C.—July 30, by Harbor Comrs., 525 Seymour St., concrete storage tanks 22 x 20 ft. for 500,000 bu., also 500 bu., dryer plant conveyor gallery, etc. $700,000. W. G. Swan, engr.

BIDS RECEIVED

Bulkheads and Jetties—Spring Lake, N. J.—Boro. Council constructing bulkheads and jetties, and placing backfilling along ocean here, from Wooley & Howland, 99 Atlantic Ave., Long Branch, 93.9% of engrs. est. ($59,000).

Street Lighting System—Redonda Beach, Calif.—W. J. Baalen, city clk., June 16, 343 c.l. ornamental standards in Esplanade, Catalina, Pacific Aves., etc., from Reid & Co., 115 Mission St., San Francisco, $95,900. Noted June 5.

CONTRACTS AWARDED

Ferry Bridges — Boston, Mass. — Pub. Wks. Dept., City Hall, two electrically operataed ferry bridges with gallows, frames and machinery to J. E. Ogden Co., Inc., 147 Cedar St., New York City, $234,000. Noted July 17.

Dikes, Bulkheads, etc.—Brooklyn, N. Y.—J. A. Delaney, comr. Docks, Pier A, foot of Battery Pl., New York, dikes, bulkheads and dredging channel from Paerdegat Basin to point 550 ft. east of Rockaway Parkway, Jamaica Bay, here, to Arundel Corp., foot of Fulton St., $282,955. Noted July 17.

Heating and Ventilating System—Brooklyn, N. Y.—See "Buildings—Commercial."

Pier—New York, N. Y.—J. H. Delaney, comr. Docks, Pier A, foot of Battery Pl., North River, building Pier 2, in North River, Contr. 1838, to G. N. Spearin, Inc., 90 West St., $301,750. Noted July 10.

Grandstand — Clearfield, Pa. — Clearfield Driving Club rein.-con. grandstand, to Dresser-Minton-Scobell Co., The Arcade, Cleveland, O. Noted May 15.

Heating—Phila., Pa.—See "Buildings—Commercial."

Heating—Charlotte, N. C.—See "Buildings—Commercial."

Grain Elevator — Clarksville, Tenn. — Dixie Milling Co., 30,000 bu. capacity concrete grain elevator and warehouse, to Smith Eng. Co., Decatur, Ill. Engrs. est. $25,000. Noted July 3.

Asphalt Plant — Detroit, Mich. — Dept. Pub. Wks., City Hall, stationary asphalt plant, 6,000 sq.yd. 2 in. topping per 10 hour day, to Barber Asphalt Co., 905 Majestic Bldg., $139,850. Noted July 10.

Foundations, etc.—Detroit, Mich.—Pub. Lighting Co., 138 East Atwater St., foundations for power house, foot of Morrell St., incl. intake and discharge tunnels for condenser plant, coal hopper and conveyor tunnel, and track support over Morrell St. sewer, to H. G. Schristman Co., 315 Stevens Bldg., $562,000.

Distribution Lines, etc.—St. Louis, Mo.—Union Electric Light & Power Co., 12th St. and Locust Blvds., will repair damage caused by storm to distribution lines and service connections, incl. erection of 500 poles and restringing main miles of cables and service lines, etc., by day labor. $100,000. Private plans.

Telephone Extensions—Ft. William, Ont.—Pub. Utilities Comn., City Hall, will extend telephone system, by day labor. $35,000.

Material and Equipment

PROPOSED WORK

Tractor—San Francisco, Calif.—City and San Francisco Co. plan to purchase 1 combination tractor for scarifiers and road cleaners. L. S. Leavy, city purch. agt.

BIDS DESIRED

Cement Mixer—Mansfield, Mass.—Mansfield Hatchery Co., 211 School St., in market for gasoline power cement mixer.

Cement—New York, N. Y.—July 30, by J. Miller, pres. Manhattan Boro., Municipal Bldg., 10,000 bags cement.

Road Oil—East Orange, N. J.—See "Streets and Roads."

Stadium—Roselle (branch of Elizabeth), N. J.—Aug. 4, by Union Co. Park Comn., at office 286 North Broad St., Elizabeth, stadium at Warinaco Park. W. R. Tracy, engr. and secy.; adv. E. N.-R. July 24.

Fuel Oil—Ft. Worth, Tex.—Taking bids 15,000 bbl. fuel oil. D. L. Lewis, city engr.

Pipe, etc.—Wichita Falls, Tex.—Taking bids 6,700 ft. 20 in. "B" c.i. pipe, 17 tons standard 20 in. c.i. fittings. M. F. Rugely, city engr.

Pier—Lamotte, Que.—Aug. 6, by S. E. O'Brien, Parliament Bldg., Ottawa, Ont., crib work landing pier, here. $30,000. K. M. Cameron, Ottawa, Ont., ch. engr.

BIDS RECEIVED

Asphalt Sand and Cement—New York, N. Y.—J. Miller, pres. Manhattan Boro., Municipal Bldg., July 16, 10,000 cu.yd. asphalt sand, from Z. Mahoney, 557 46th St., Brooklyn, $11,200; 10,000 bags portland cement, from Anderson Brick & Supply Co., 201 East 129th St., $7,250, E. E. Buehler Co., 103 Park Ave., $7,250, and J. P. Duffy Co., 207 East 138th St., $7,250. Noted July 10.

Jetty — Cleveland, O. — From Central Dredging Co., Bangor Bldg., stone jetty, $407,358, intake pipes, $99,060.

Granite Paving Blocks — Minneapolis, Minn. — For 2,100 sq.yd. granite paving blocks, from Wisconsin Granite Co., 105 West Monroe St., Chicago, $2.99 per sq.yd. f.o.b. Minneapolis.

Gravel, etc. — Houston, Tex. — For 200 cars road gravel, from Granite Gravel Co., Blodgett Sta., $0.375; 80 cars mud shell, from J. Journeay, Chronicle Bldg., $0.80.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: August 11.

Water Supply

Liverpool, N. Y.

Sealed proposals will be received by the Board of Trustees of the Village of Liverpool, N. Y., until eight o'clock p.m., on the 11th day of August, 1924, for the furnishing of materials and the construction of a water supply system.

Plans and specifications may be seen at the Village Hall, Liverpool, N. Y., or at the office of F. J. Shepherd, Engineer, 15 West 38th St., New York City, New York. Plans may be obtained from the Engineer on a deposit of $15.00 of which $10.00 will be refunded providing the plans and specifications are returned in good order within two weeks of the date of the opening of the bids.

The work will consist of, and separate proposals must be made for each of the following:

Contract A: Furnishing Cast Iron Pipe and Specials.
Contract B: Furnishing Valves and Hydrants.
Contract C: Furnishing and Erecting Elevated Steel Tank.
Contract D: Pipe Laying.
Contract E: Reservoir, Pump House, Collecting System and Tank Foundations.
Contract F: Pumping Equipment.

The Board reserves the right to reject any or all bids.

A surety bond satisfactory to the Board in the full amount of the contract will be required.

A certified check made payable to the Board of Trustees, Liverpool, N. Y., amounting to not less than 5% of the amount bid must be deposited by each bidder and accompany his bid.

Bids must be sealed and addressed to the Board of Trustees, Liverpool, N. Y., and marked on the outside of the envelope "Proposal for Contract——"

IRVING FAIRCHILD,
Village President.
EUGENE FREEMAN,
Village Clerk.

Dated: Liverpool, N. Y., July 22, 1924.

Bids: August 26.

Water Works and Sewage Disposal

Southern Pines, N. C.

Sealed proposals will be received by the Mayor and Board of Town Commissioners of the Town of Southern Pines, N. C., at the Town Hall in Southern Pines, N. C., until noon, August 26th, 1924, for Water Works and Sewage Disposal.

The work will consist of:
Brick and Concrete Pumping Station and complete Filter Plant.
Steel Wash Water Tank and Tower.
Three miles of 12-inch Cast Iron Pipe Line.
Three miles of 2,200 volt transmission line.
Motor-driven Centrifugal Pumps, and accessories.
Earth and Concrete Impounding Dam.
Sewage Disposal Plant.

Proposals must be marked "Proposal for Water Works Improvements."

All bids must be upon blank forms provided in the Proposal, Specifications, and Contract.

Each bid must be accompanied by a certified check for not less than five per cent of the amount of the bid, as evidence of good faith.

Plans and specifications will be on file at the Clerk's office in Southern Pines, and at the office of the Engineer in Durham, N. C.; and copies of the specifications, form of proposal, etc., will be mailed upon application to the Engineer at Durham, N. C., accompanied by payment of Six Dollars ($6.00) for each set of plans and specifications.

The right is reserved to reject any or all bids.

SAMUEL B. RICHARDSON,
Mayor.
R. L. CHANDLER,
Clerk.

Engineer:
GILBERT C. WHITE CO.,
Durham, N. C.

OFFICIAL PROPOSALS

Bids: August 11.
CONTRACT NO. 75

Lighting System for Parkway Drive

BRONX PARKWAY COMMISSION
Bronxville, N. Y.

Sealed bids for installing a complete lighting system throughout the Bronx River Parkway Drive between Botanical Garden in the Borough of The Bronx and Kensico Dam in Westchester County, a total distance of about 15½ miles, will be received by the Bronx Parkway Commission at its office, 72 West Pondfield Road, Bronxville, N. Y., until 11:30 a.m. (Daylight Saving Time), August 11, 1924.

Lighting standards will be furnished and delivered at the site of the work by the Bronx Parkway Commission. Approximately 470 lights will be required in the completed installation. Bids will be received on the basis of installing the following types of underground distribution:

(a) Steel taped lead encased primary cable known as solid construction.
(b) Steel taped lead encased primary cable known as semi-solid construction.
(c) Rubber covered lead encased primary cable in fibre conduits enveloped in concrete.
(d) Rubber covered lead encased primary cable installed in concrete conduit known as the "Murray" conduit.

Individual light transformers will be required at each light.

Bidders may submit alternative bids on any or all of the above types of underground distribution as they may elect. The Commission expects to select the type of underground system which will in its judgment give the greatest return for the money expended. The right is reserved to reject any or all bids.

Pamphlet containing Information for Bidders, Form of Proposal, Specifications and Detail Drawings may be obtained by intending bidders at the above address or from Runyon & Carey, Consulting Engineers, 845 Broad Street, Newark, N. J., by depositing $5.00. Plans showing the approximate location of each lighting standard are on file and may be seen at either of the above addresses, but will not be sent out to bidders.

Bronx Parkway Commission.
By JAY DOWNER,
Engineer and Secretary.

Bronxville, N. Y.
July 18, 1924.

Bids: August 1.

Street Improvement

Newton Falls, Ohio.

Sealed bids will be received by the Clerk of the Village of Newton Falls, Ohio, until 12 o'clock noon, Eastern Standard Time, August 1st, 1924, for the improvement of W. Broad St., Arlington Boulevard, Milton Boulevard and Warren Avenue. Approximately 12,950 sq.yds. brick block pavement, 11,530 lin.ft. header curbing, 3,600 sq.yds. 3 inch Bituminous Top (penetration), 10,000 feet berms and 450 tons extra slag.

HENRY HERBERT,
Clerk.

WADE W. SHIDLER, Engineer,
513 Home Saving & Loan Bldg.,
Youngstown, Ohio.

Bids: Aug. 21.

Mixing Chamber and Chemical House

Atlanta, Ga.

Bids will be received at the office of the undersigned until twelve o'clock noon, Thursday, Aug. 21st, mixing chamber and chemical house for Atlanta Water Works.

Bid blanks and specifications can be obtained from Mr. W. Z. Smith, General Manager, Atlanta Water Works.

The right is reserved to accept or reject any and all bids.

W. P. PRICE,
City Purchasing Agent,
Atlanta, Ga.

OFFICIAL PROPOSALS

Bids: August 19.

Brandywine Creek Bridge

Wilmington, Del.

Proposals addressed to the President of the Levy Court, Room 133, County Building, Wilmington, Delaware, will be received until 11 o'clock (Eastern Standard Time), Tuesday, August 19th, 1924, for the construction of a new bridge over the Brandywine Creek at 16th and Jessup Streets in Wilmington, including the following approximate quantities:

Concrete in substructure, 626 cubic yards.
Structural steel, 430,000 pounds.
Machinery, 24,000 pounds.
Concrete in superstructure, 300 cubic yards.
Reinforcing metal, 30,500 pounds.
Paving, 812 square yards.

Plans and specifications may be obtained at the office of the County Engineer on and after July 26, 1924, upon a deposit of $20.00, of which $10.00 will be refunded upon their return in good condition on or before the day of the letting. A certified check payable to the President of the Levy Court or a bidding bond in the amount of 5% of the total proposal must accompany each bid.

The Levy Court reserves the right to reject any or all bids.

C. E. GRUBB,
County Engineer.

Bids: August 5.

Storage Reservoir

West Chester, Pa.

Sealed proposals will be received by the Council of the Borough of West Chester, Chester County, Pa., at the Borough Hall on the 5th day of August, 1924, until 12 o'clock noon, for the completion of a Storage Reservoir, in part constructed, at Milltown, East Goshen Township, Chester County, Pa. The bids received will be publicly opened at 2 o'clock p.m., on the same day. The work to be done includes excavation, rip-rap paving, connection with settling pond and general clean-up.

Plans and specifications are on file and may be seen at the Borough Hall, West Chester, Pa., or at the office of the Borough Engineer, T. G. Colesworthy, Court House, West Chester, Pa. Complete sets of plans and specifications may be had upon application to said Borough Engineer upon deposit of $10.00, which deposit will be refunded only to those submitting bona fide bids upon the work and returning the plans in good condition.

Each proposal must be accompanied by a certified check, made payable to the Borough of West Chester, for the sum of $500.00. A bond for 50 per cent of the contract price will be required.

The right is reserved to reject any or all bids.

M. M. DAVIS,
Secretary of Borough Council.

Bids: August 11.

Street Improvements

Corinth, Miss.

Sealed proposals will be received by the Mayor and Board of Aldermen, at the Mayor's office in the Court House, Corinth, Mississippi, until 7:30 o'clock p.m., August 11th, 1924, covering certain improvements on Jackson Street, Taylor Street and Webster Street, for grading, combined curb and gutter, sidewalks, drainage and 26,000 sq.yds. of paving (Willite Surface, Bitulithic, Rock Asphalt, One Course Portland Cement Concrete, Sheet Asphalt, Asphalt Concrete or Brick).

Specifications and bidding blanks may be had on application to the Clerk or Robert L. Totten, Inc., Consulting Engineers, Birmingham, Ala. Complete plans and profiles will be mailed on receipt of payment of $5.00.

The right is reserved to reject any or all bids

J. A. LOWE,
Mayor.
M. T. SHARP,
Clerk.

ROBERT L. TOTTEN, INC.,
Consulting Engineers,
Birmingham, Alabama.